

General Architecture

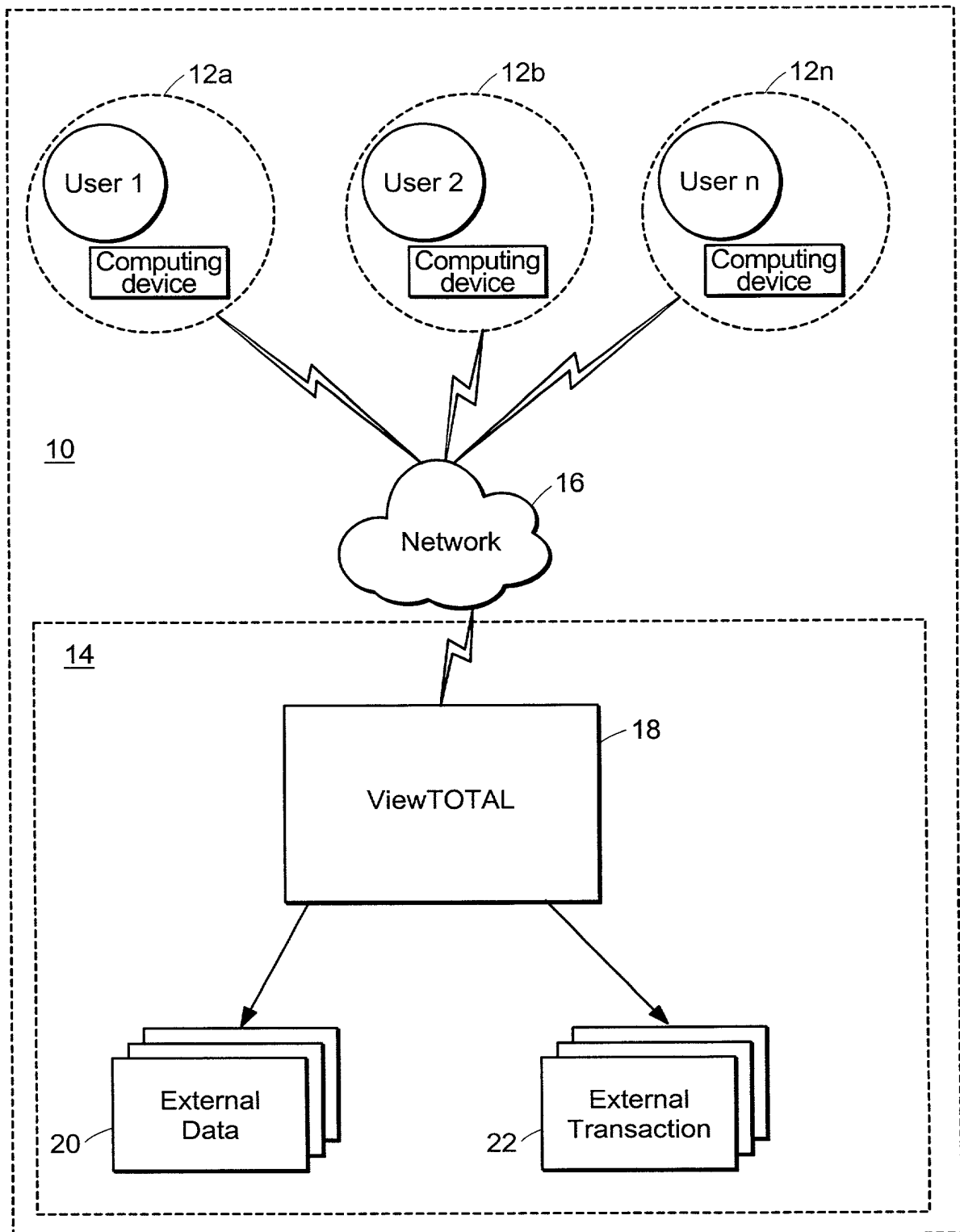
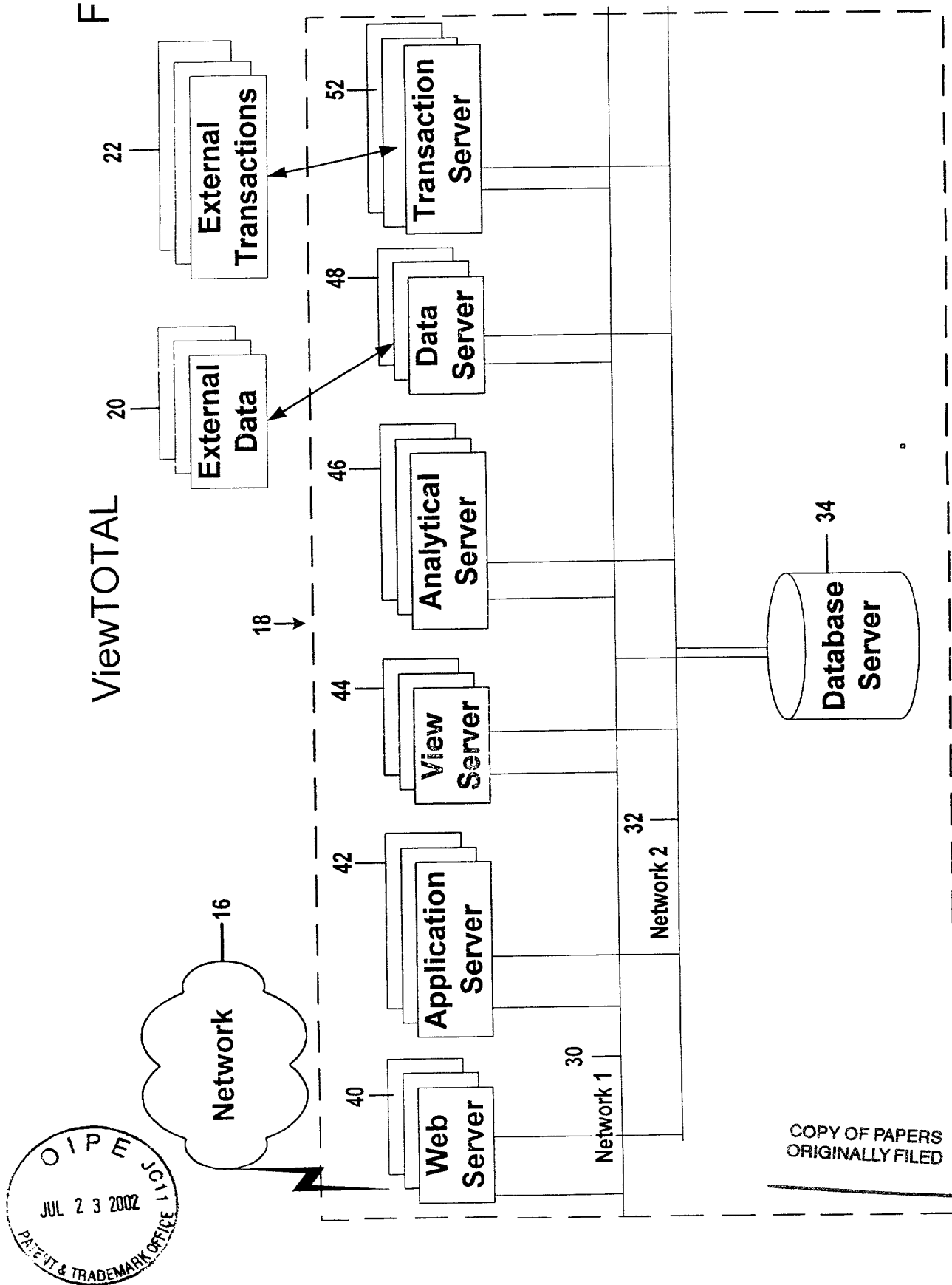


FIG. 1

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FIG. 2





800 →

Portfolio

Trades

Markets

Trade Entry

Logout

Account Trader Fund

Account Equities 3 Go

60 → Views: Fundamentals - ProfitLoss - Risk - By Instrument - By LongShort - By Industry - By AssetClass - By Greeks - By Counterparty

3/64  
Portfolio Analysis (By instrument) Account Equities 3 As Of 11/06/2000 Copyright 2000 Unilogic, Inc.

62a		62b		65		63							72	
Instrument	PriorClose	Last	Bid	Ask	Open	%Change	NetChange	Price	Short	Long	Position	ShortPosValue		
AAPL	22.2500	21.4375	21.1875	21.4375	22.4375	-3.65	0.8125	21.44	0.00	0.00	0.00			
IBM	100.1250	100.3125	0.0000	0.0000	99.8750	0.19	0.1875	100.31	0.00	0.00	0.00			
Total														
Lock												X	62x	

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FIG. 3



20020623 14:53:06

Portfolio

Trades

Markets

Trade Entry

Logout

Views: Indices Override

Portfolio Analysis Instrument Override Account Equities 3 As Of 11/06/2000 Copyright 2000 Unilogic, Inc.

<input type="checkbox"/> Instrument	<input type="checkbox"/> Description	<input type="checkbox"/> Bid	<input type="checkbox"/> Ask	<input type="checkbox"/> Last	<input type="checkbox"/> Local Price
					Override
AAPL	Apple Computer	21.1875	21.3125	21.4375	25.0000
IBM	IBM	0.0000	0.0000	100.3125	

74

FIG. 4

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Before Failover

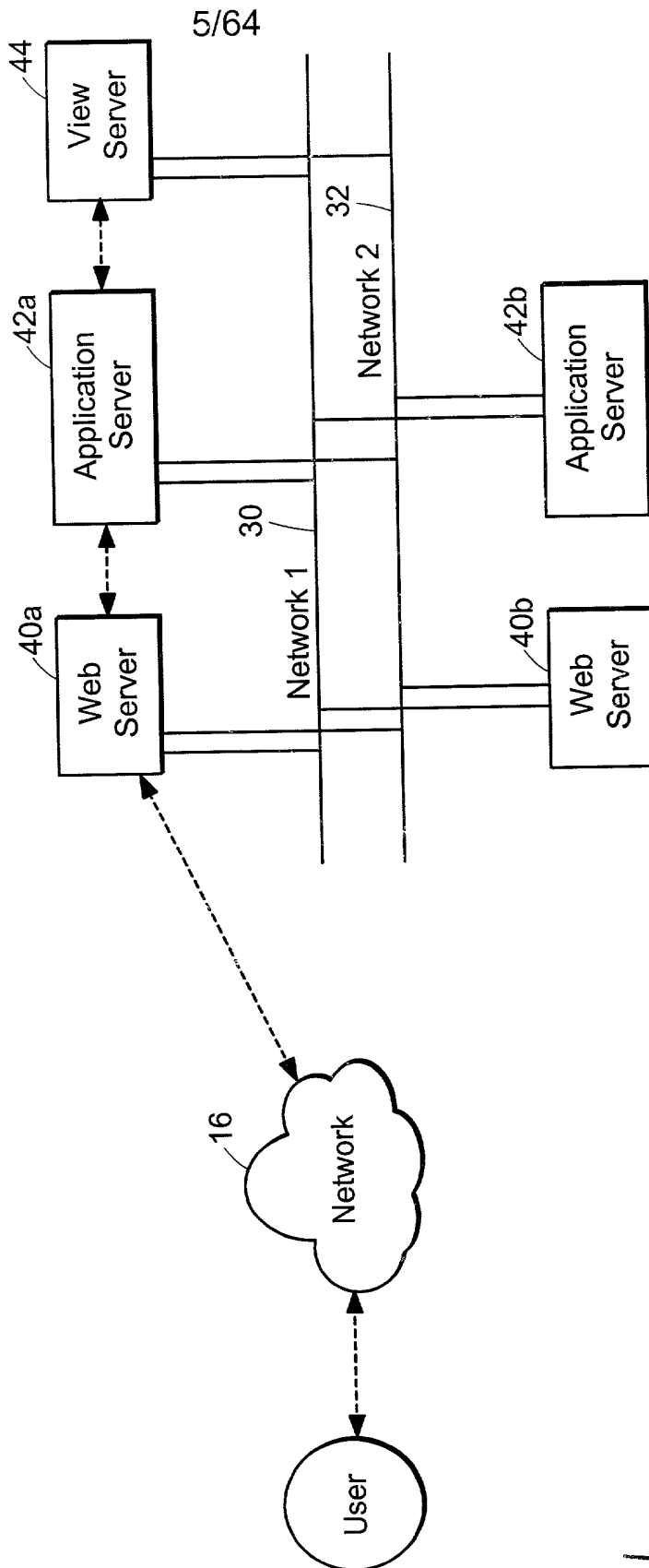


FIG. 5A

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After Failover

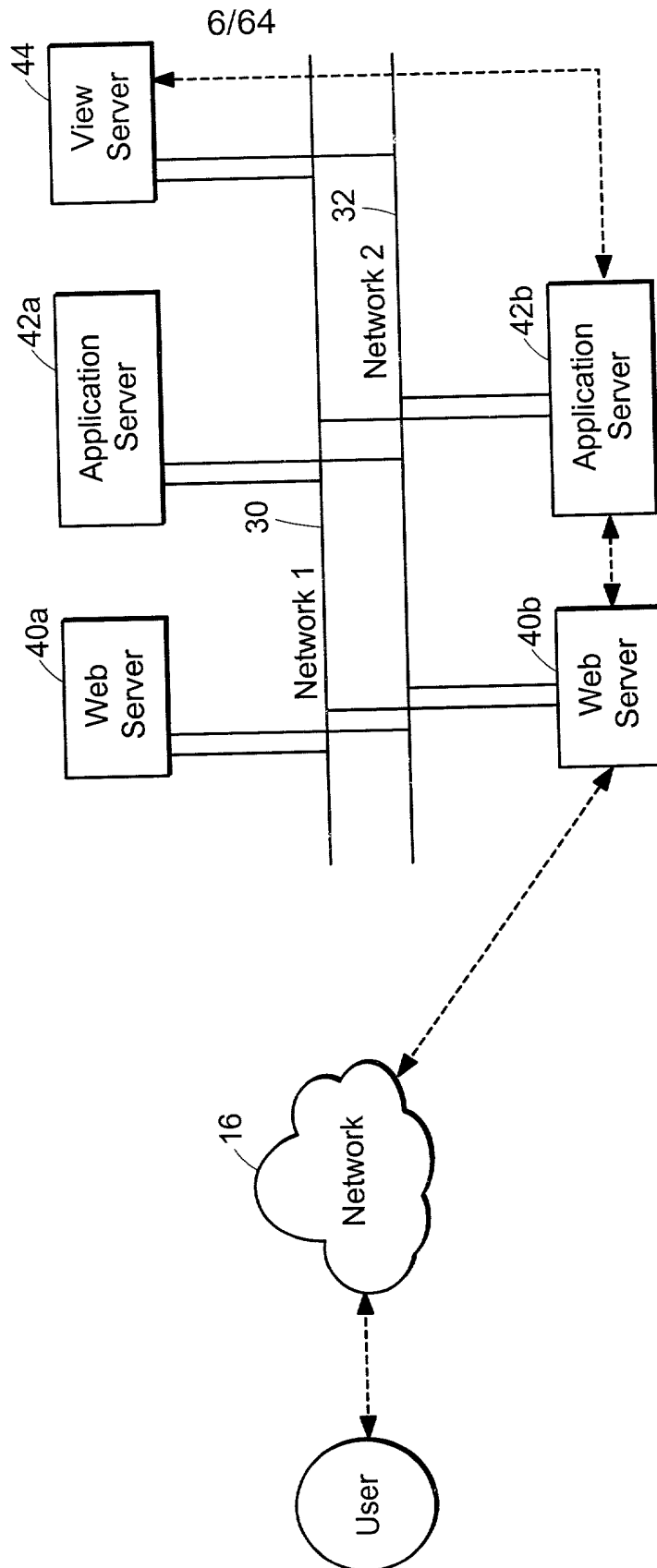
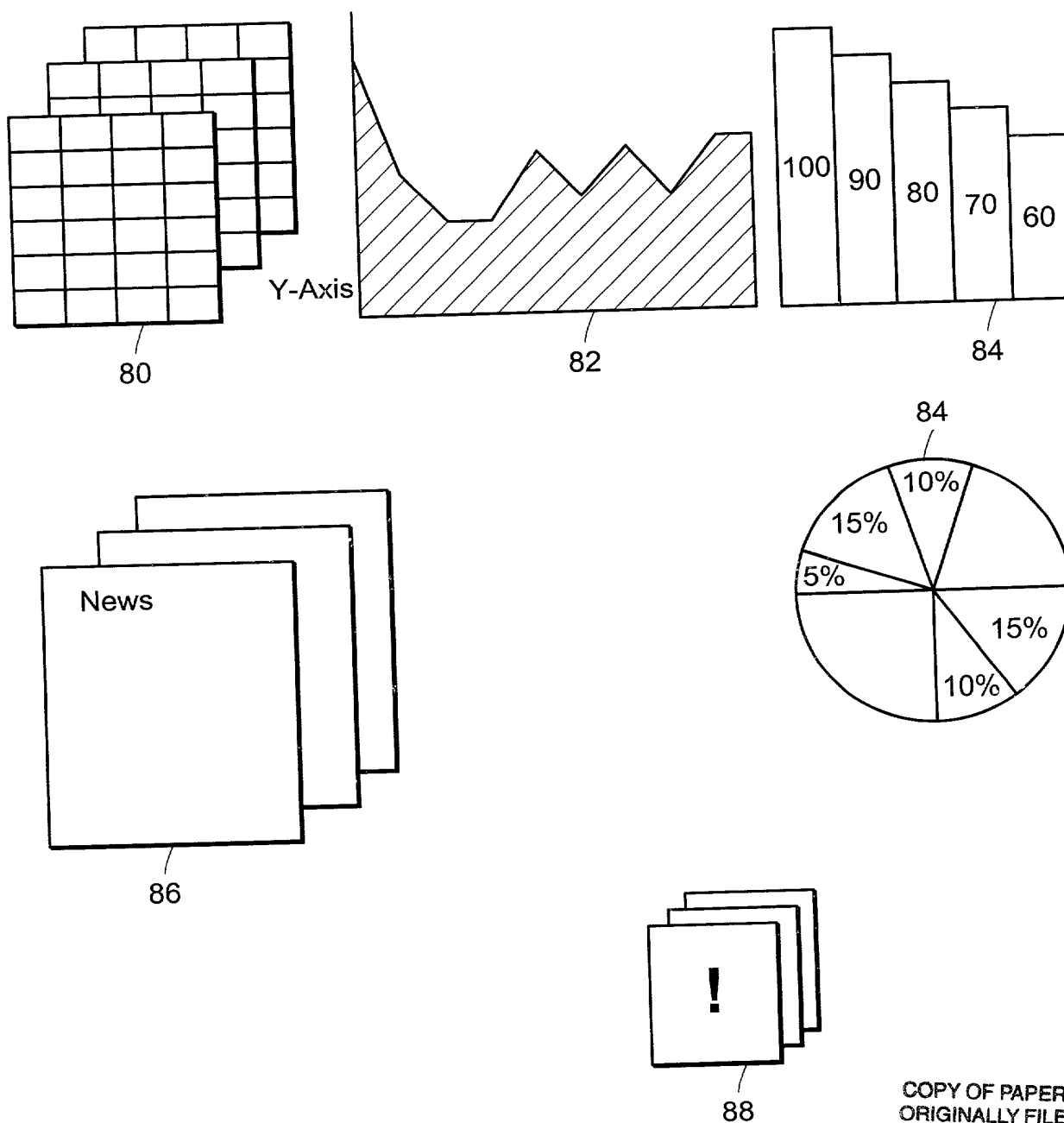


FIG. 5B

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7/64

User application view



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FIG. 6



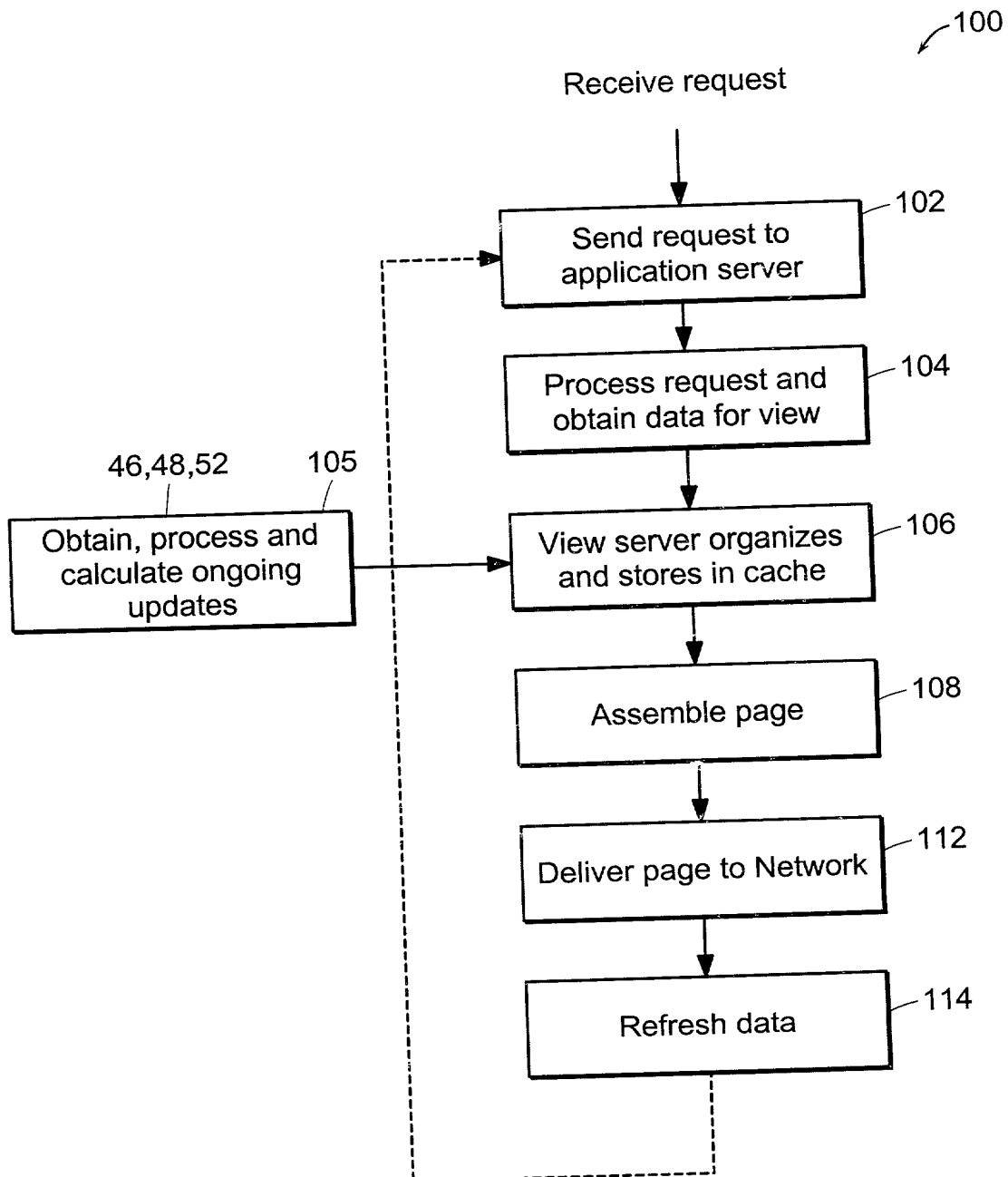


FIG. 7

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9/64

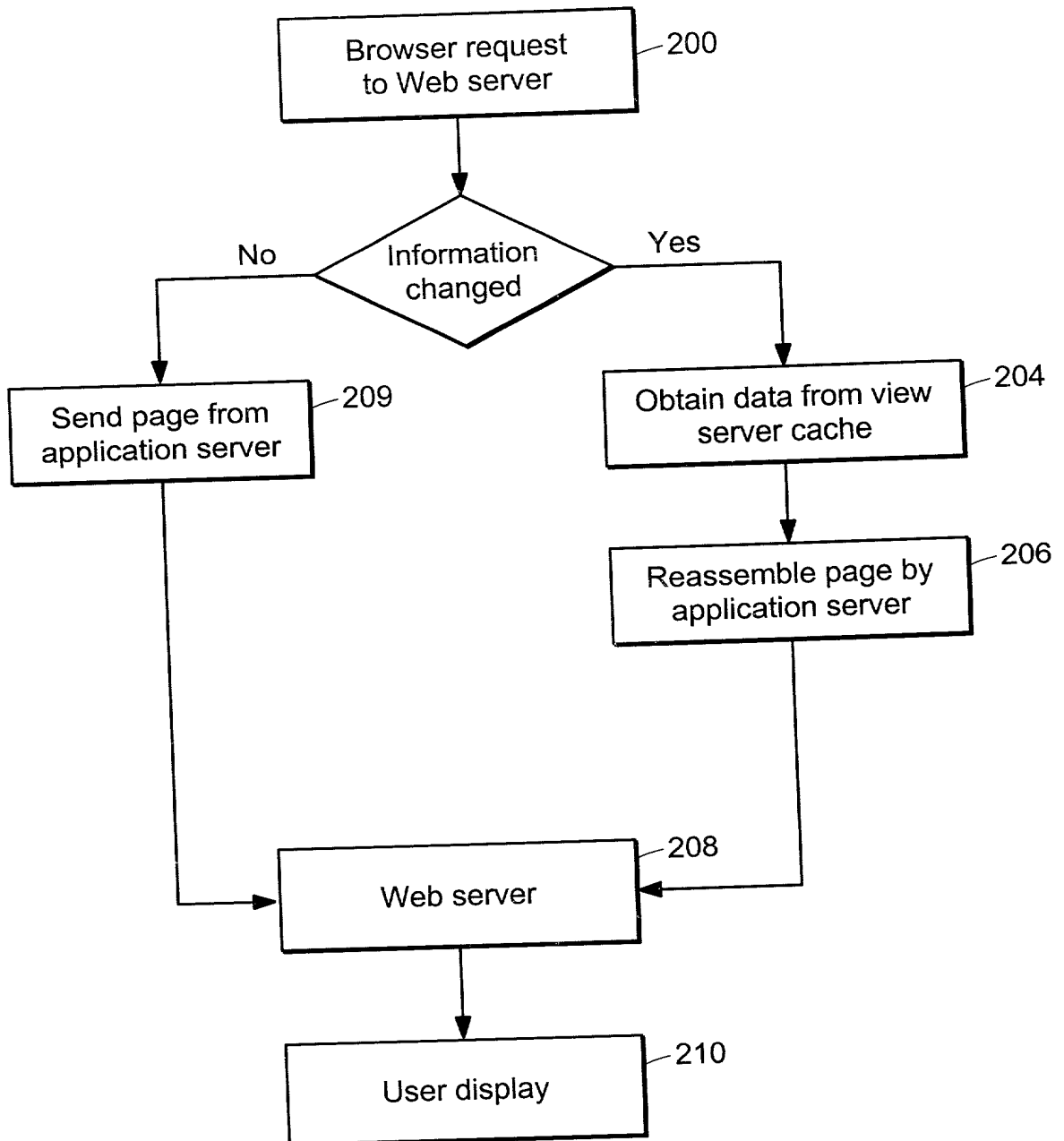


FIG. 8

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Portfolio Trades Markets Trade Entry Logout

Account Trader Fund

Account Equities 1 Go

Views: Blotter - DailyBlotter - Expiration

Trade Blotter Account Equities1 As Of 11/29/2000 Copyright 2000 Unilogic, Inc.

10/64

To modify or cancel a trade please click on arrow near TradeID

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TradeID	Security Name	Description	Trade Type	Trade Status	Trade Dividend	Trade Quantity	Trade Price	Security Type	Counterparty	Trade Date	Maturity				
2641	IBM	IBM	Buy	Open	0.00	1000.00	99.000	Common Stock	Bank Of America	11/06/2000					
Total															

FIG. 8A

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Portfolio

Trades

Markets

Trade Entry

Logout

Account Trader Fund

Account 

Equities 1

Go

Views: Blotter - DailyBlotter - Expiration

Trade Blotter Account Equities1 As Of 11/29/2000 Copyright 2000 Unilogic, Inc.

802 

Modify Trade

Cancel Trade

 803

TradeID	Security Name	Description	Trade Type	Trade Status	Trade Dividend	Trade Quantity	Trade Price	Security Type	Counterparty	Trade Date	Maturity
2641	IBM	IBM	Buy	Open	0.00	1000.00	99.000	Common Stock	Bank Of America	11/06/2000	
Total											

FIG. 8B

Portfolio

Trades

Markets

Trade Entry

Logout

Are you sure to Modify trade 2641?

Yes

No

FIG. 9

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Portfolio Trades Markets Trade Entry Logout

Choose Security Type Equity Go

Equity Trade Entry

☒ Buy ☐ Sell ☐ Short ☐ Buy To Cover

Account	Equities1
Amount	1000.00
Equity	IBM
Trade Price	99.000
Counterparty	BankOfAmerica
Commission	50.00
Trade Date	11/06/2000
Hedge	<input type="checkbox"/>
Trade ID	2641
submit	

FIG. 10

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Portfolio

Trades

Markets

Trade Entry

Logout

Account Trader Fund

Account Currencies1 ▾ Go

Views: Fundamentals - ProfitLoss - Risk - By Allocation - By AssetClass - By Counterparty - By Country - By Currency - By Industry - By Instrument - By LongShort } 1000

13/64

Portfolio Analysis (By Country) Account Currencies1 As Of 11/26/2000 Copyright 2000 Unilogic, Inc.

Country	Spot	ShortPosValue	LongPosValue	PosValue	UnrealizedP/L		RealizedP/L	
					OTD		OTD	
USA	1.0000	0.00	29,700.00	29,700.00	-1,300.00		0.00	
Japan	112.0000	0.00	32,428.57	32,428.57	-4,911.43		0.00	
Total		0.00	62,128.57	62,128.57	-6,211.43		0.00	

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FIG. 11

Refresh Detail

Back To Aggregate View

<u>Instrument</u>	<u>Local</u>	<u>Currency</u>	<u>Maturity</u>	<u>Position</u>	<u>PosValue</u>	<u>UnrealizedP/L</u>	<u>RealizedP/L</u>
						OTD	OTD
	Price						0.00
EWJ	11.75	USD		2,000.00	23,500.00	-4,760.00	0.00
Japanese_Yen	112.00	Japanese_Yen		1,000,000.00	8,928.57	-161.43	0.00
Total					32,428.57	-4,911.43	0.00

**FIG. 12**

15/64

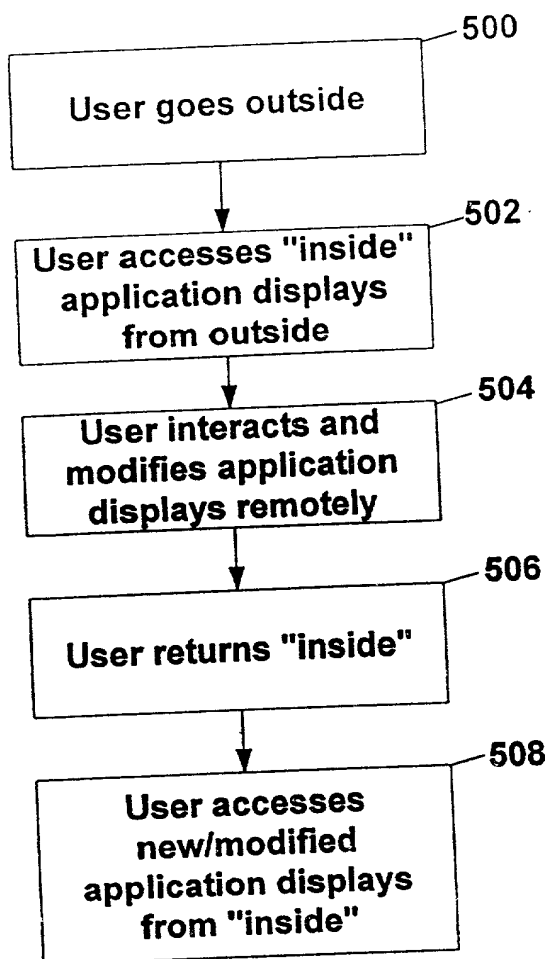


FIG. 13

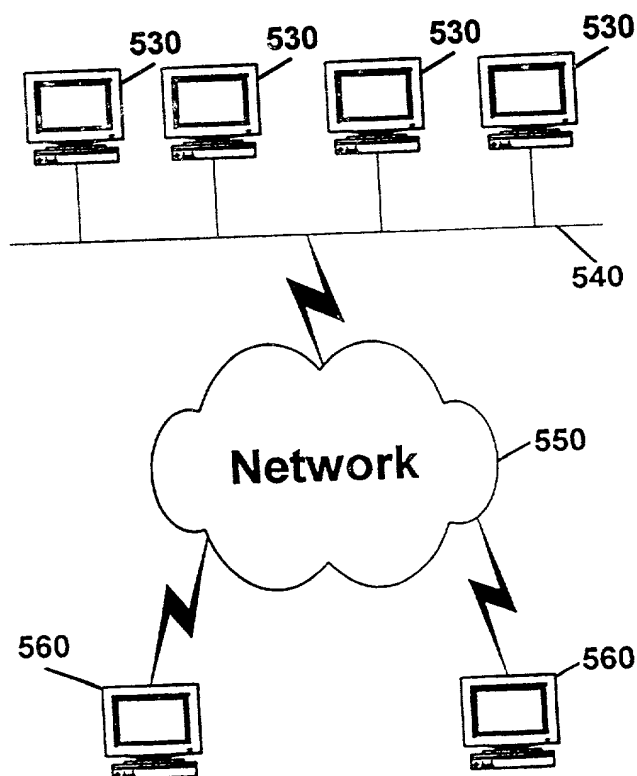


FIG. 14

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Portfolio

Trades

Curves

Markets

Trade Entry

Configure

Logout

Account Trader Fund

Account

Currencies1

Go

Views: Fundamentals - ProfitLoss - Risk - By Allocation - By AssetClass - By Counterparty - By Country - By Currency - By Industry - By Instrument - By LongShort - By Greeks

16/64

600 Portfolio Analysis (By AssetClass) Account Currencies1 As Of 05/22/2001

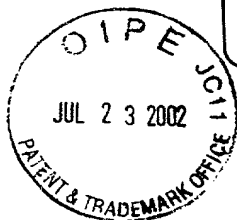
AssetClass	ShortPosValue	LongPosValue	PosValue	%PosValue	UnrealizedP/L	RealizedP/L
					OTD	OTD
Currencies	-884,642.60	0.00	-884,642.60	25.53	-44,642.60	0.00
Options	0.00	55,000.00	55,000.00	1.59	29,000.00	0.00
Equities	-490,350.00	2,082,630.00	1,592,280.00	72.89	1,179,175.00	0.00
Total	-1,374,992.60	2,137,630.00	762,637.40	100.00	1,163,532.40	0.00

FIG. 15



AssetClass	ShortPosValue	LongPosValue	PosValue	%PosValue	UnrealizedP/L	RealizedP/L
Currencies	-884,779.58	0.00	-884,779.58	25.53	-44,779.58	0.00
Options	0.00	55,000.00	55,000.00	1.59	29,000.00	0.00
Equities	-490,350.00	2,082,630.00	1,592,280.00	72.88	1,179,175.00	0.00
Total	-1,375,129.58	2,137,630.00	762,500.42	100.00	1,163,395.42	0.00

**FIG. 16**



Portfolio

Trades

Curves

Markets

Trade Entry

Configure

Logout

Account Trader Fund

Account

Currencies1

Go

Views: Fundamentals - ProfitLoss - Risk - By Allocation - By AssetClass - By Counterparty - By Country - By Currency - By Industry - By Instrument - By LongShort - By Greeks

Portfolio Analysis (By AssetClass) Account Currencies1 As Of 05/22/2001

AssetClass	ShortPosValue	LongPosValue	PosValue	%PosValue	UnrealizedP/L	RealizedP/L
Currencies	-884,897.02	0.00	-884,897.02	25.53	-44,897.02	0.00
Options	0.00	55,000.00	55,000.00	1.59	29,000.00	0.00
Equities	-490,350.00	2,082,630.00	1,592,280.00	72.88	1,179,175.00	0.00
Total	-1,375,247.02	2,137,630.00	762,382.98	100.00	1,163,277.98	0.00

Selected Column

FIG. 17



Portfolio

Trades

Curves

Markets

Trade Entry

Configure

Logout

Account Trader Fund

Account

Currencies1

Go

Views: Fundamentals - ProfitLoss - Risk - By Allocation - By AssetClass - By Counterparty - By Country - By Currency - By Industry - By Instrument - By LongShort - By Greeks

Portfolio Analysis (By AssetClass) Account Currencies1 As Of 05/22/2001

AssetClass	LongPosValue	PosValue	ShortPosValue	%PosValue	UnrealizedP/L	RealizedP/L
Currencies	0.00	-884,779.58	-884,779.58	25.53	-44,779.58	0.00
Options	55,000.00	55,000.00	0.00	1.59	29,000.00	0.00
Equities	2,082,630.00	1,592,280.00	-490,350.00	72.88	1,179,175.00	0.00
Total	2,137,630.00	762,500.42	-1,375,129.58	100.00	1,163,395.42	0.00

Selected Column

FIG. 18

Account Trader Fund

Account Currencies1 Go

Views: Fundamentals - ProfitLoss - Risk - By Allocation - By AssetClass - By Counterparty - By Country -  
By Currency - By Industry - By Instrument - By LongShort - By Greeks  
Portfolio Analysis (By AssetClass) Account Currencies1 As Of 05/22/2001

AssetClass	LongPosValue	PosValue	ShortPosValue	%PosValue	UnrealizedP/L	RealizedP/L
Currencies	0.00	-885,779.58	-885,249.53	25.54	-44,249.53	0.00
Options	55,000.00	55,000.00	0.00	1.59	29,000.00	0.00
Equities	2,082,630.00	1,592,280.00	-490,350.00	72.87	1,179,175.00	0.00
Total	2,137,630.00	762,500.47	-1,375,599.53	100.00	1,162,925.47	0.00

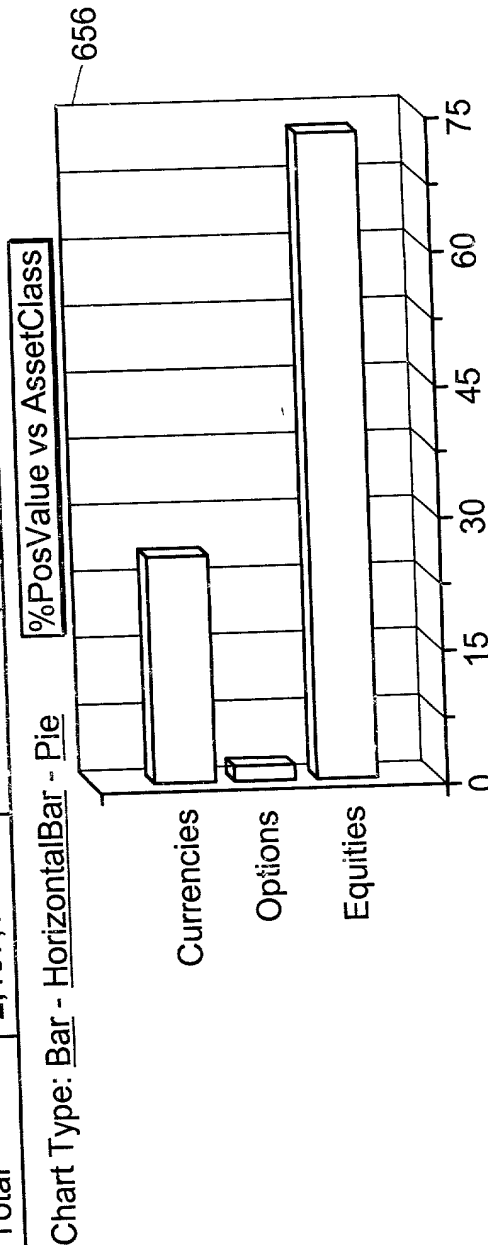


FIG. 19



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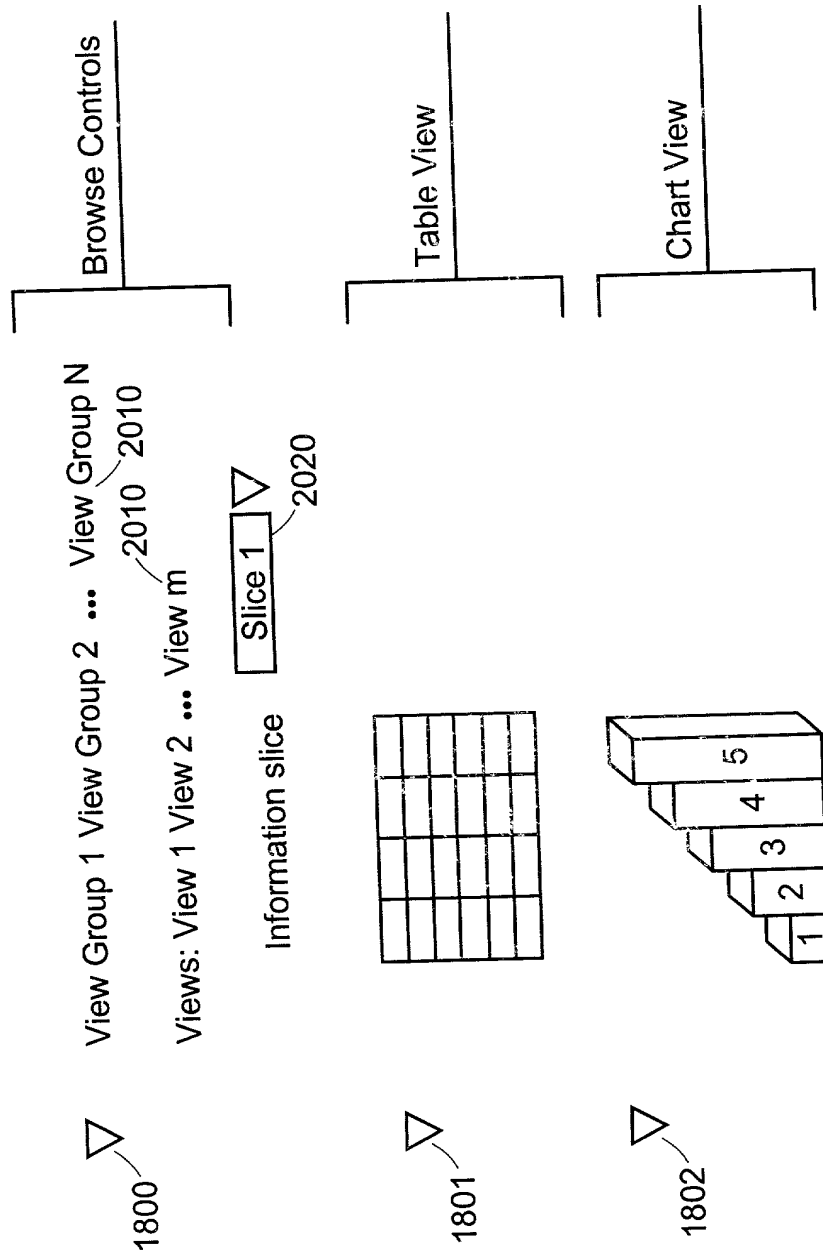
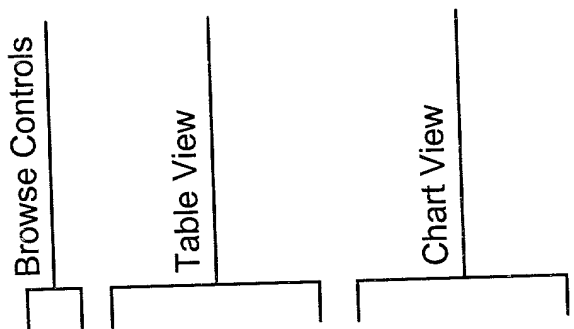


FIG. 20A



1800

1801

1802

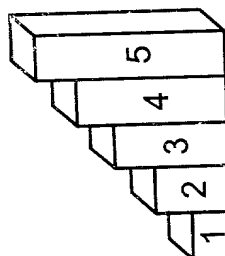
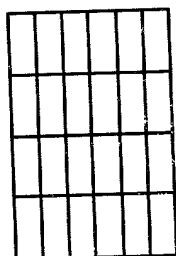


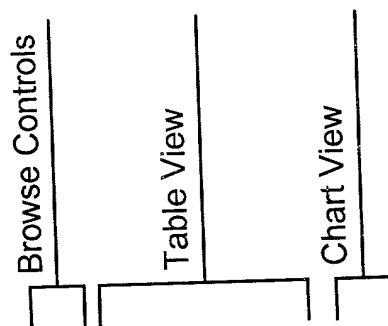
FIG. 20B



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23/64



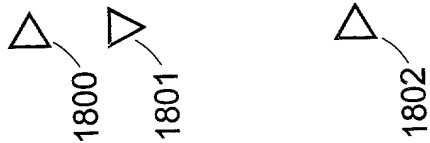
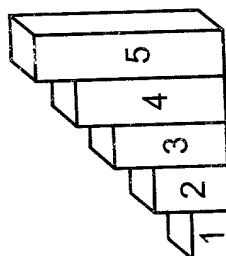
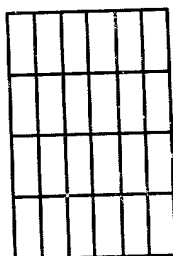
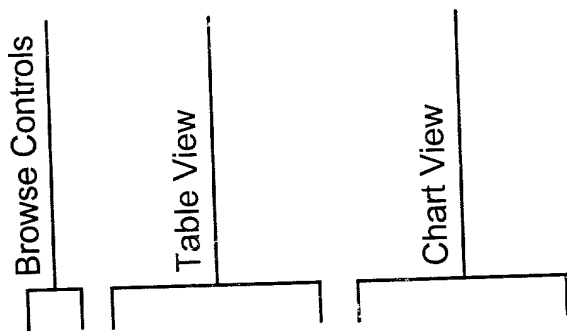



FIG. 20C



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1800

1801

1802

FIG. 20D





## HTML Based Application

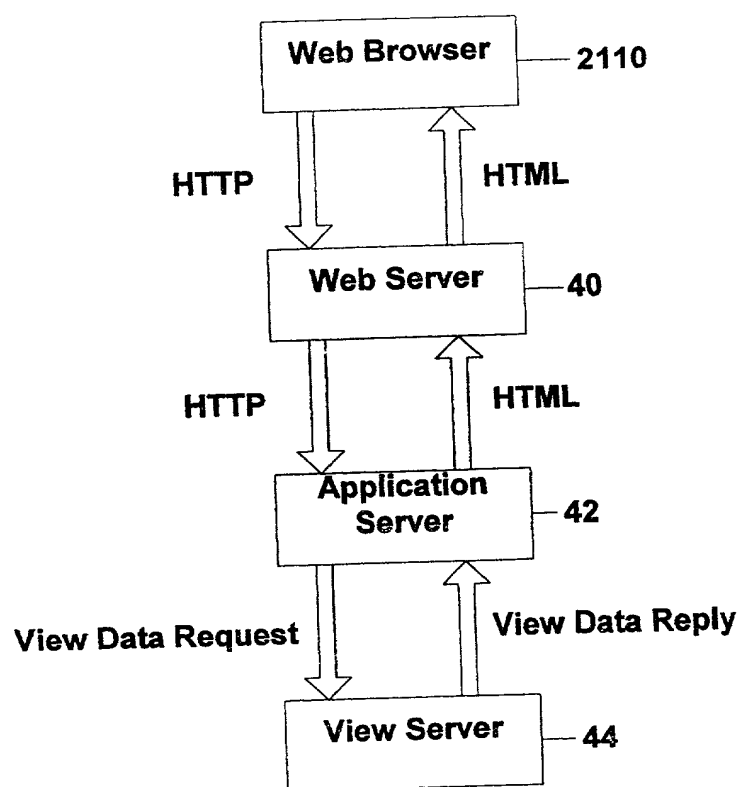


FIG. 21



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# Browser Based Client (Java, C#,...) Application

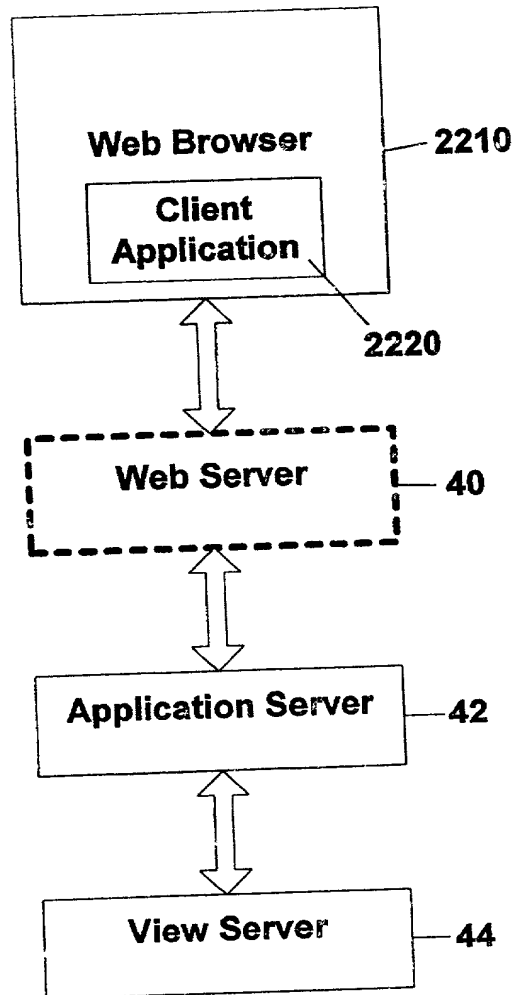


FIG. 22

# Local Client (Java, C#,C++,...) Application

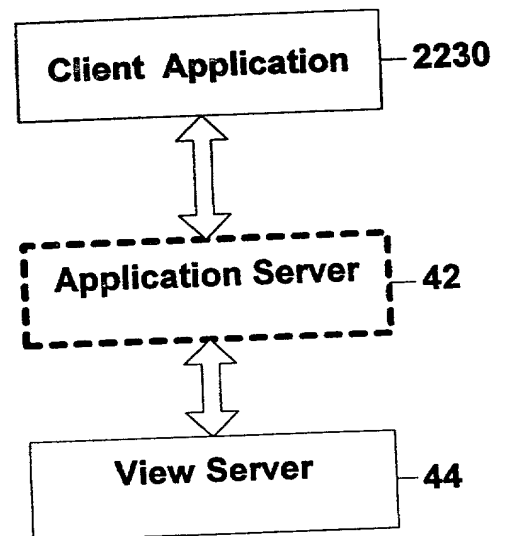


FIG. 22A

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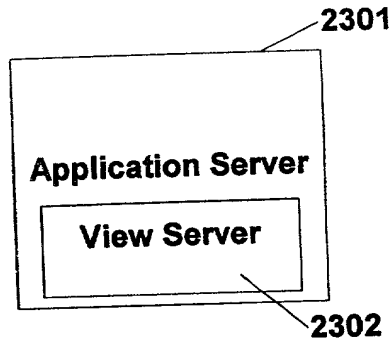


FIG. 23A

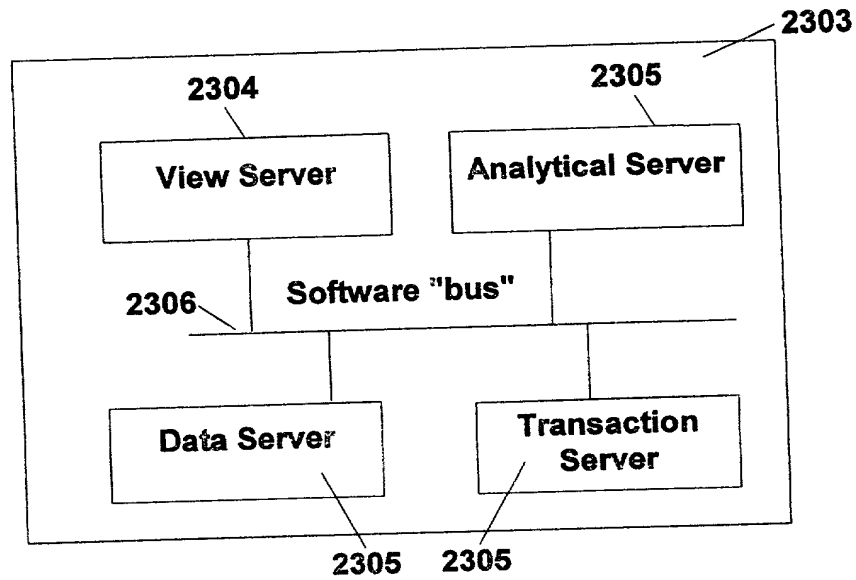


FIG. 23B

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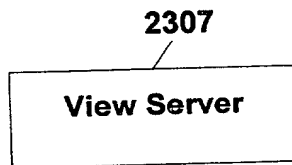
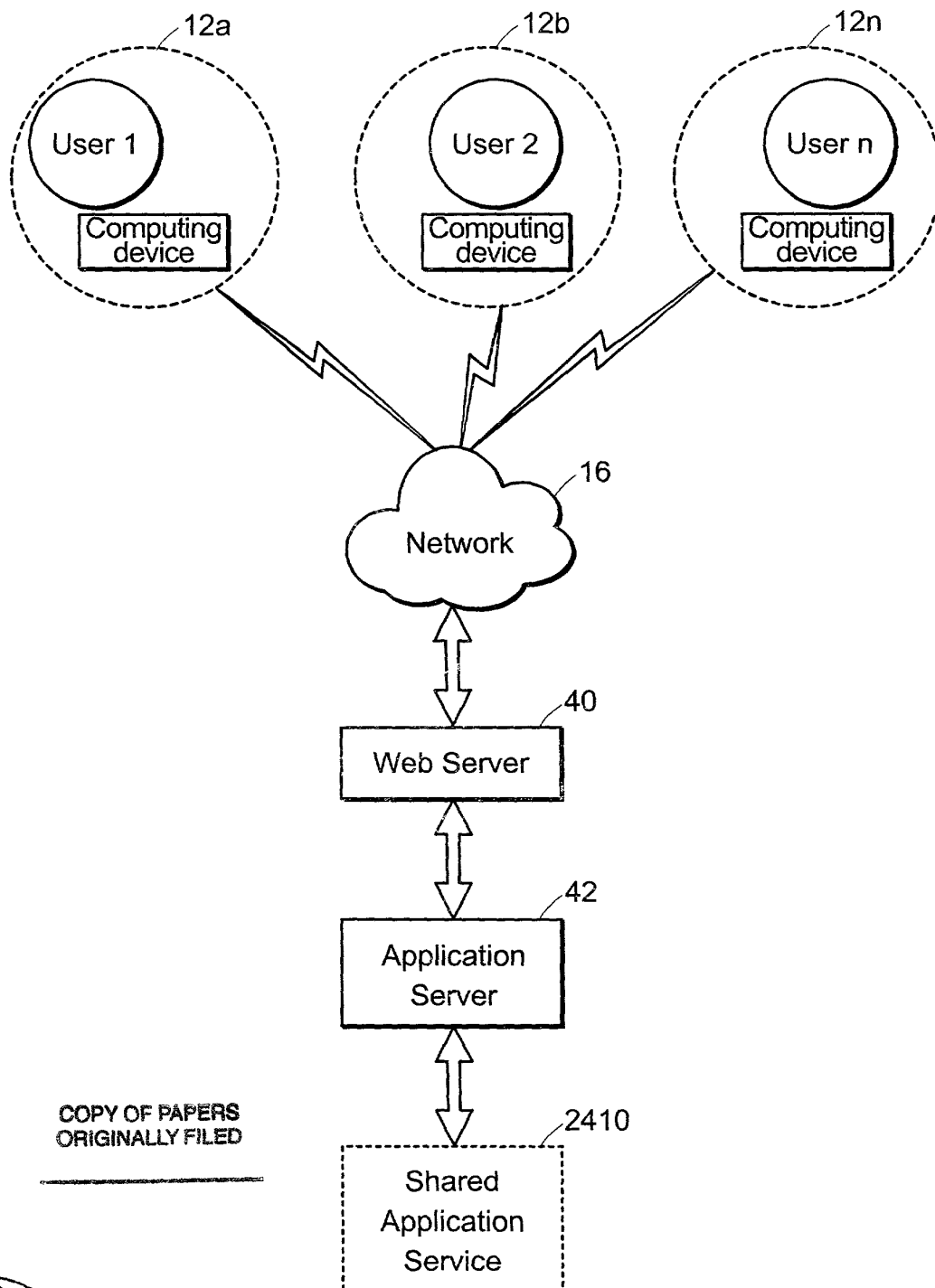


FIG. 23C



0998517-07200

HTML based shared application service



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FIG. 24A

Browser based client (Java, C#, ...) using shared application service

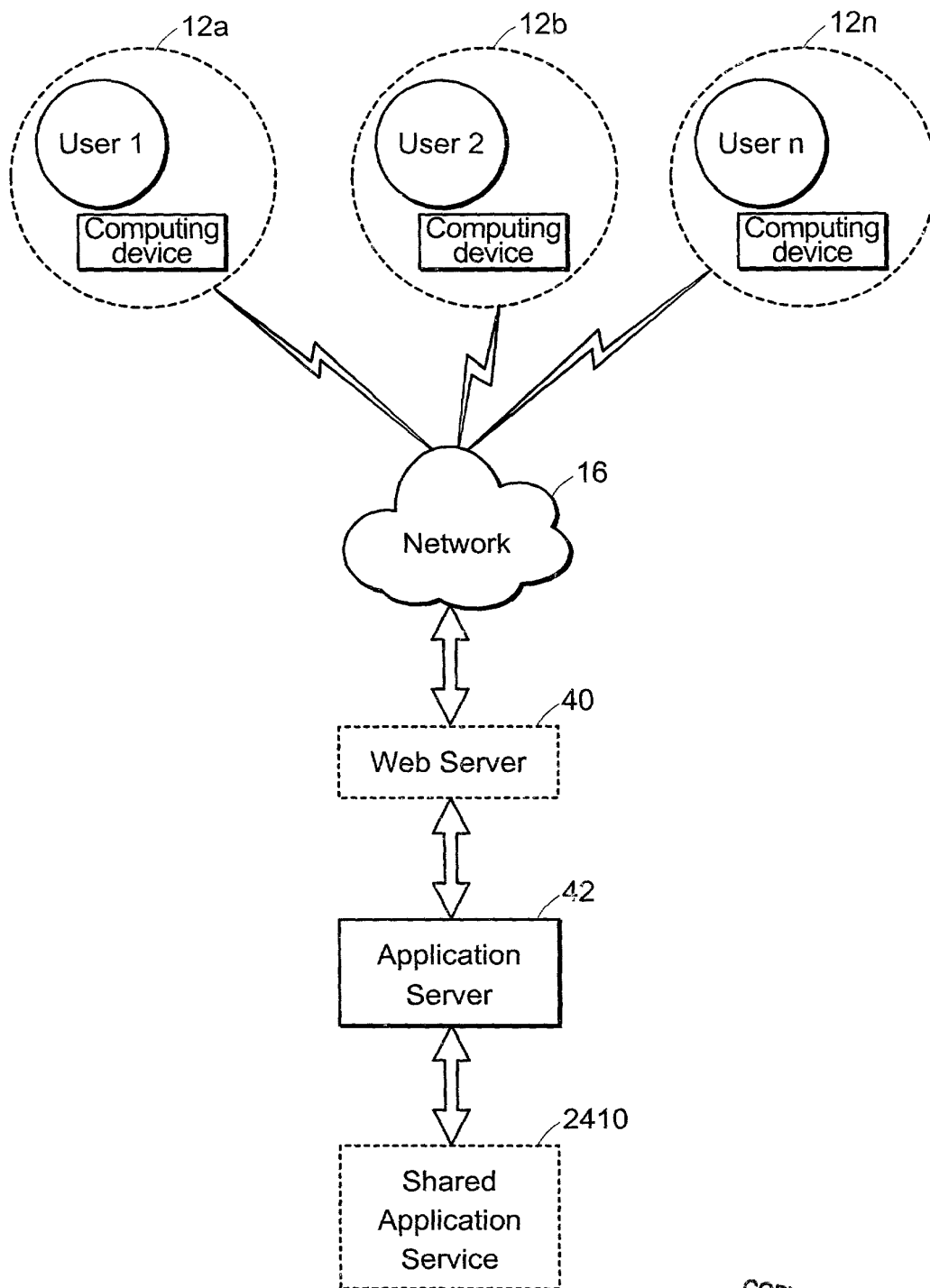


FIG. 24B

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Local client (Java, C#, C++,...) using shared application service

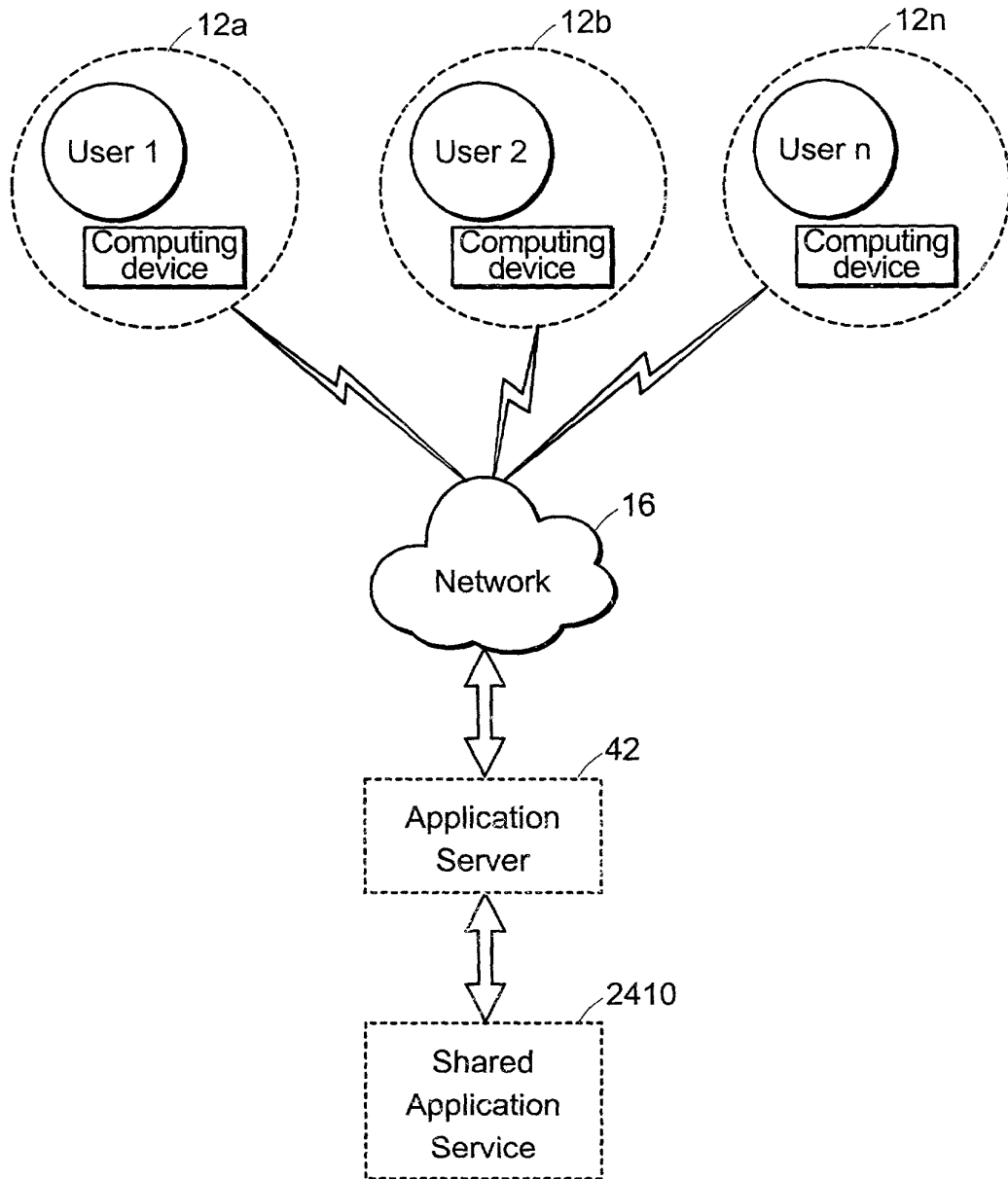


FIG. 24C

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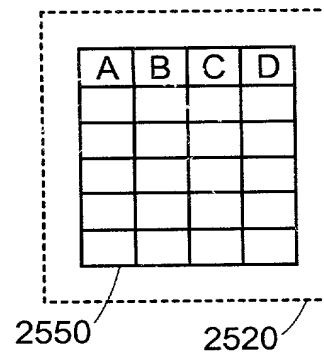
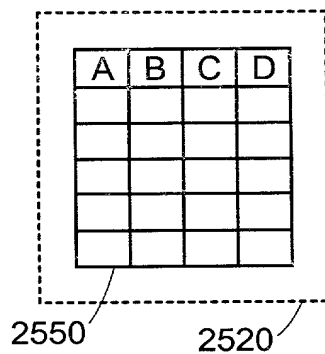
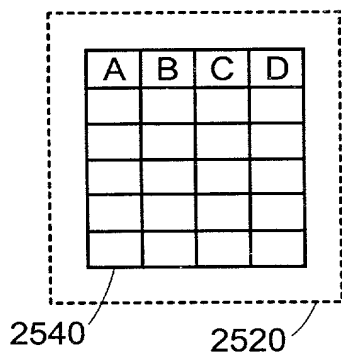
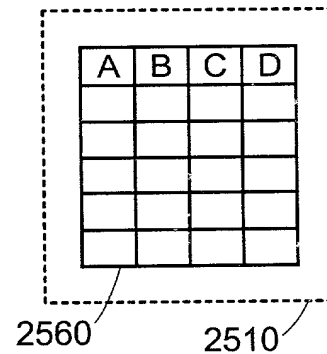
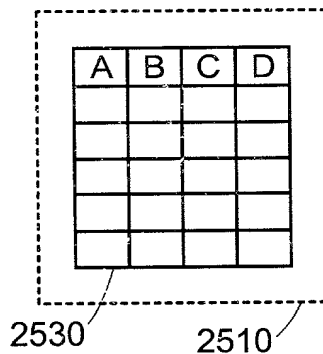
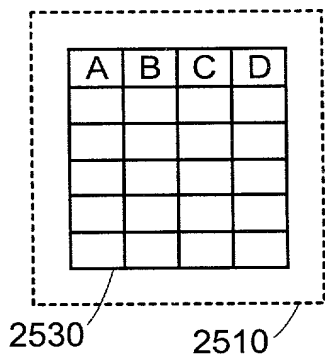


FIG. 25A

FIG. 25B

FIG. 25C

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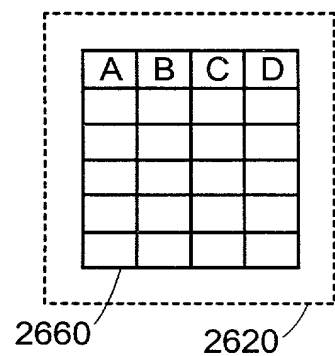
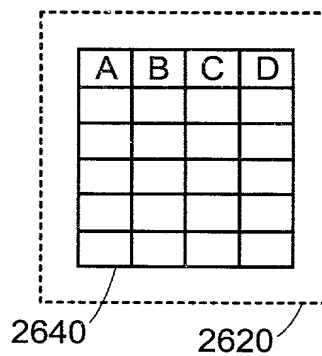
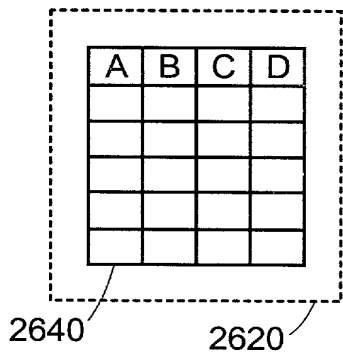
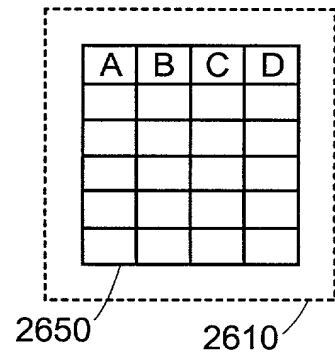
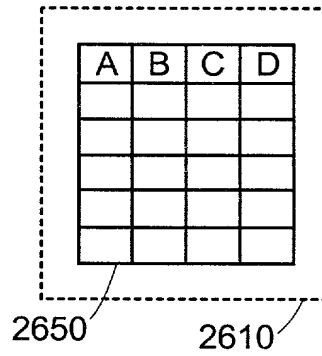
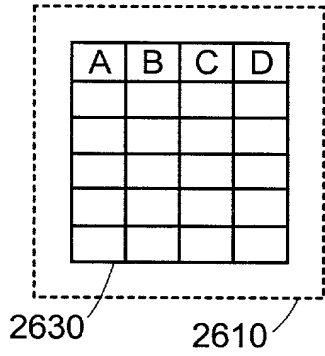


FIG. 26A

FIG. 26B

FIG. 26C



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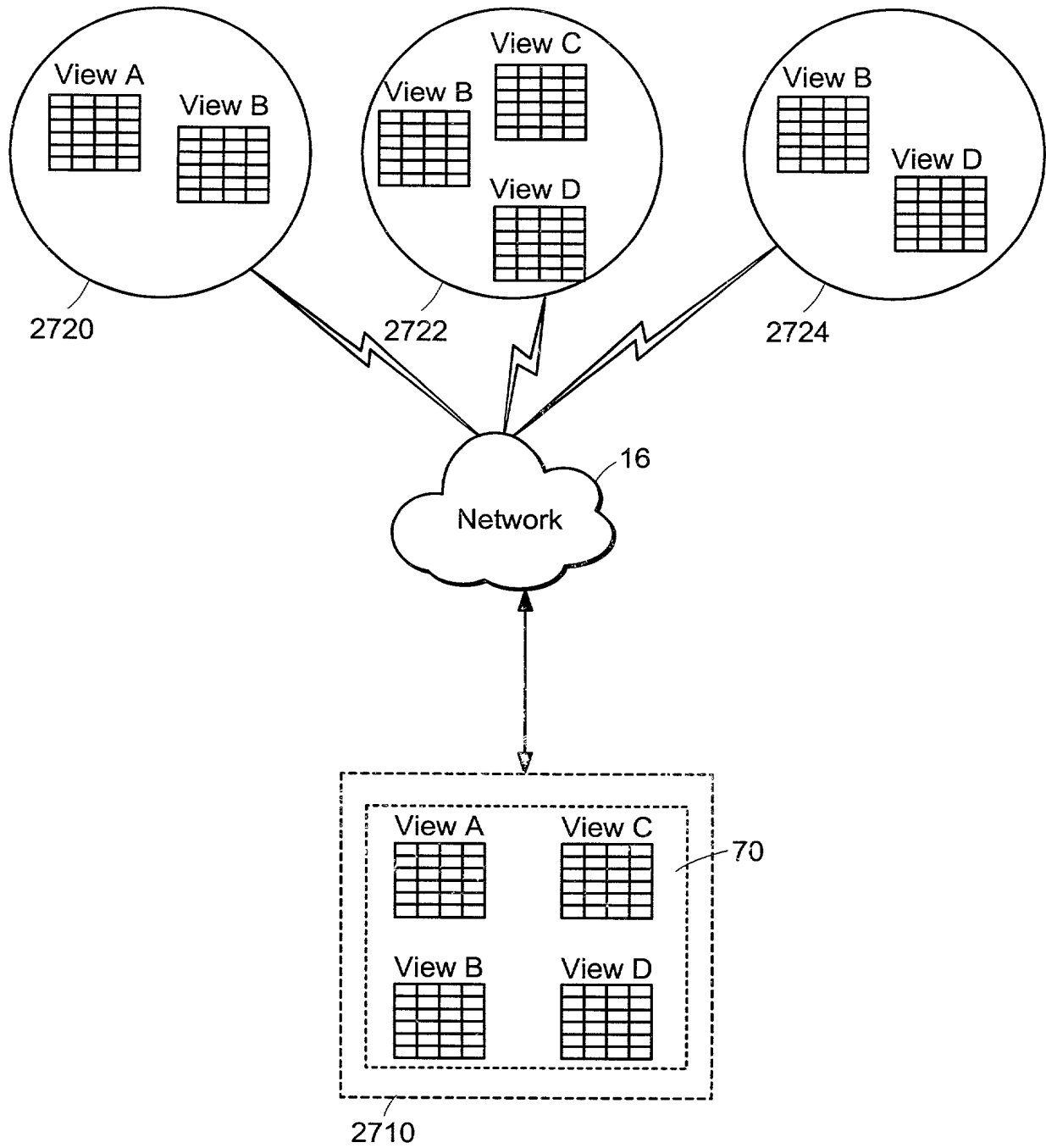


FIG. 27



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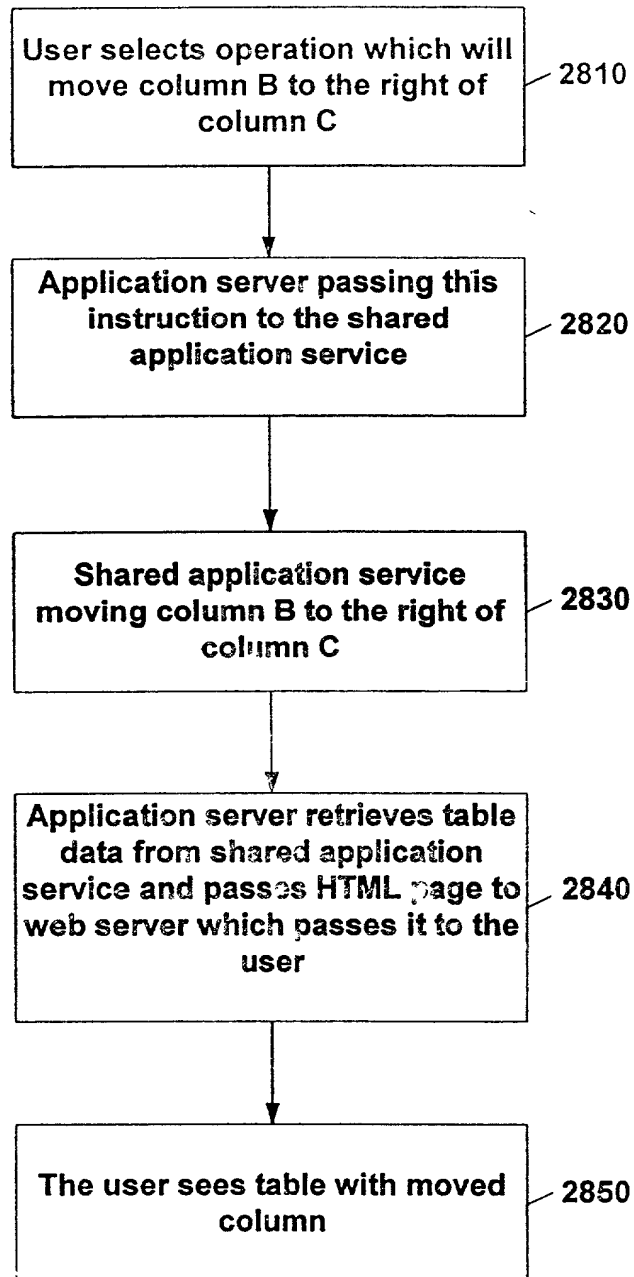
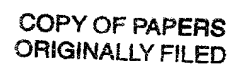
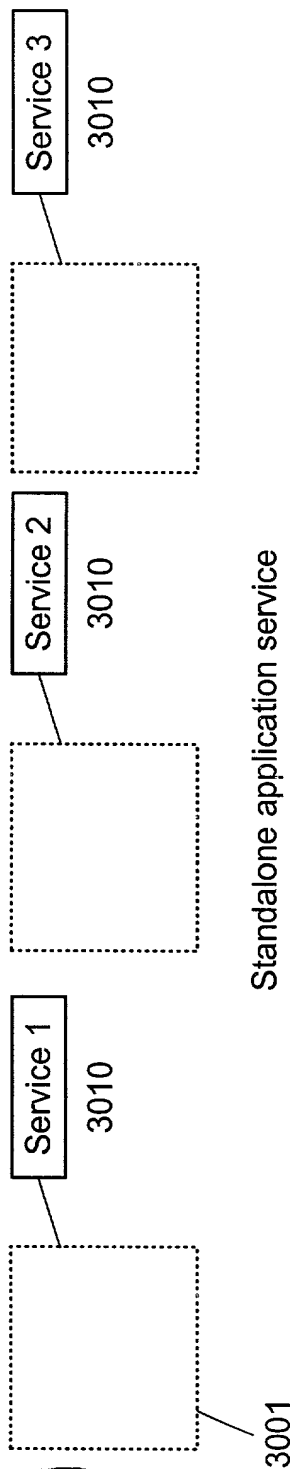


FIG. 28



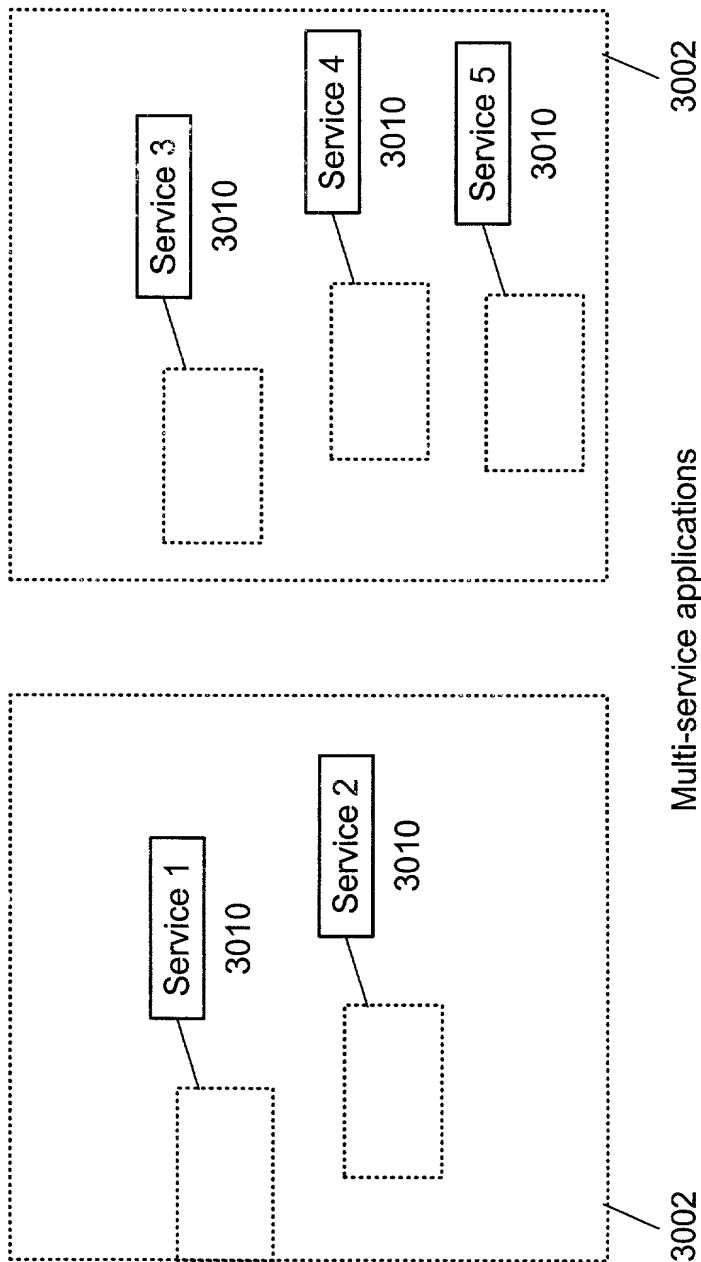
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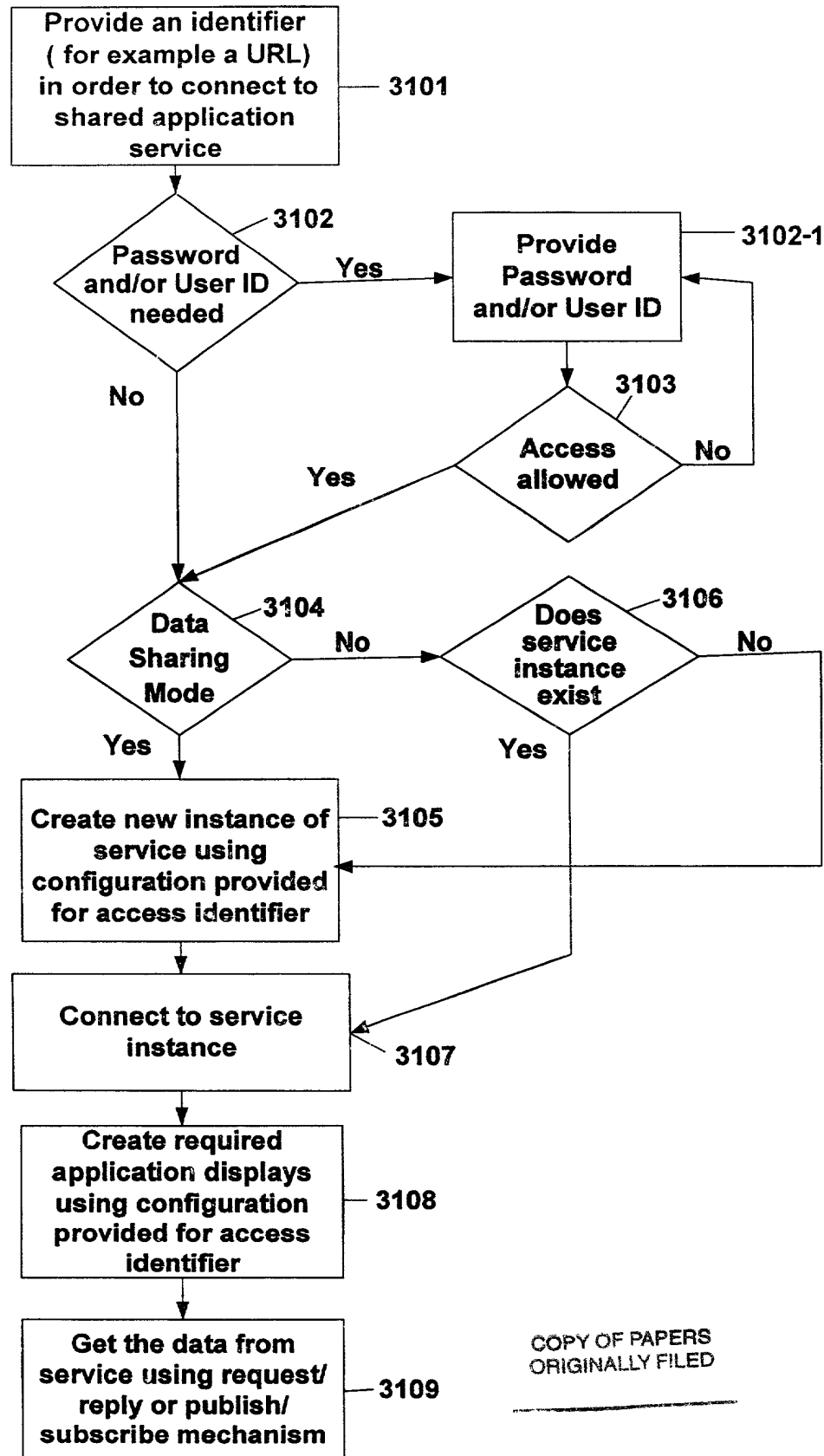
Standalone application service

FIG. 30A



Multi-service applications

FIG. 30B



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FIG. 31-1

Continued on  
FIG 31-2



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Continued from  
FIG 31-1

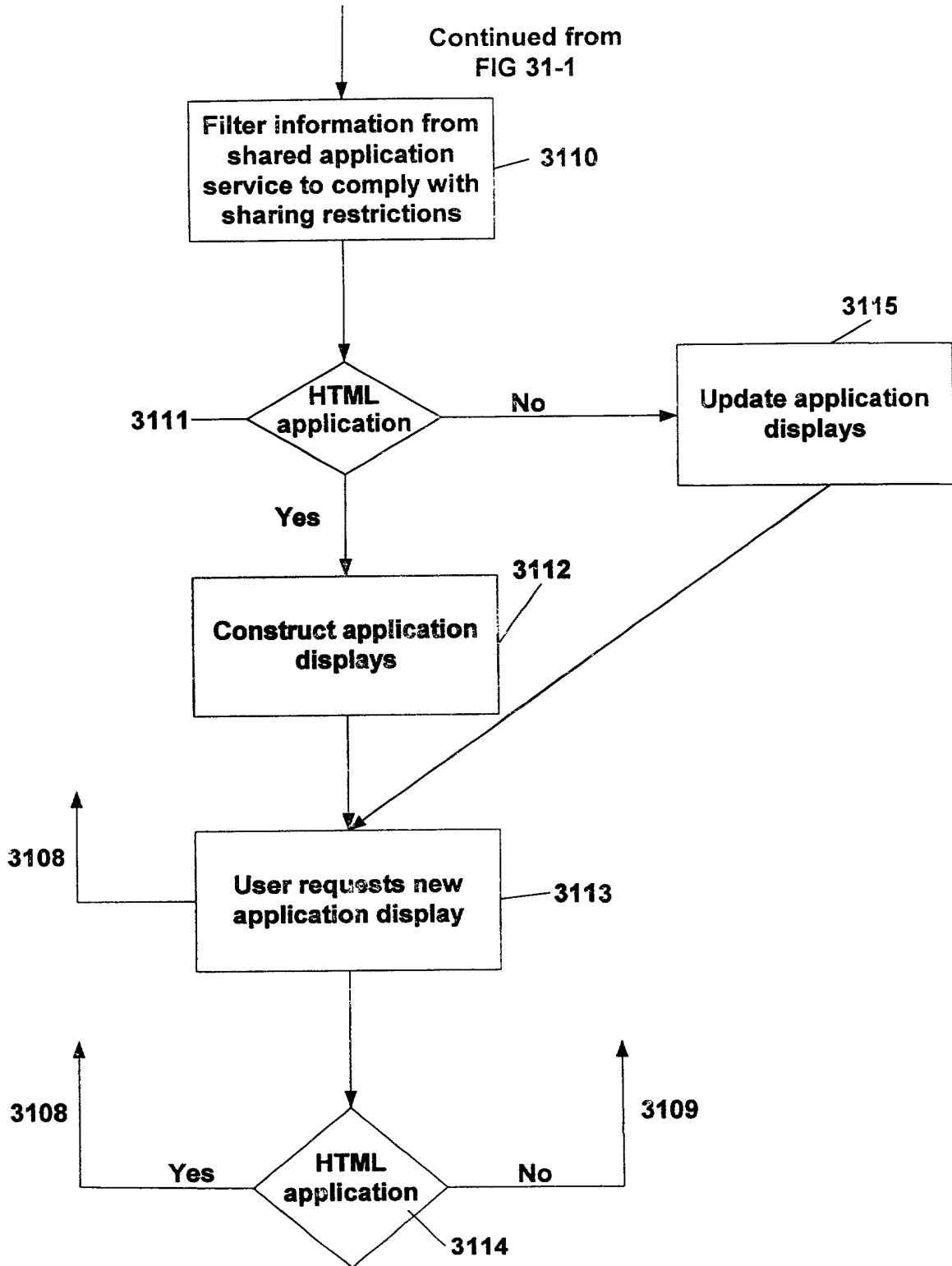


FIG. 31-2



00008517.02300

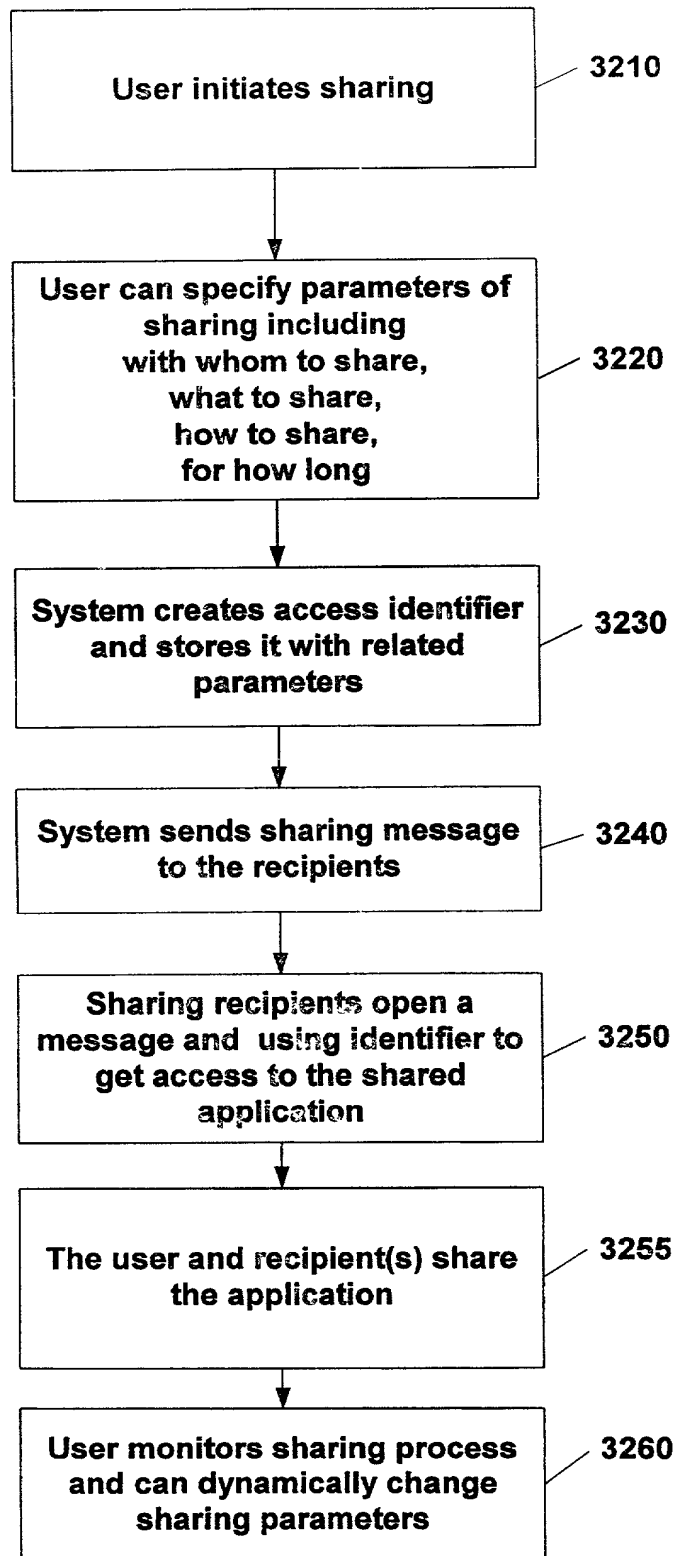


FIG. 32



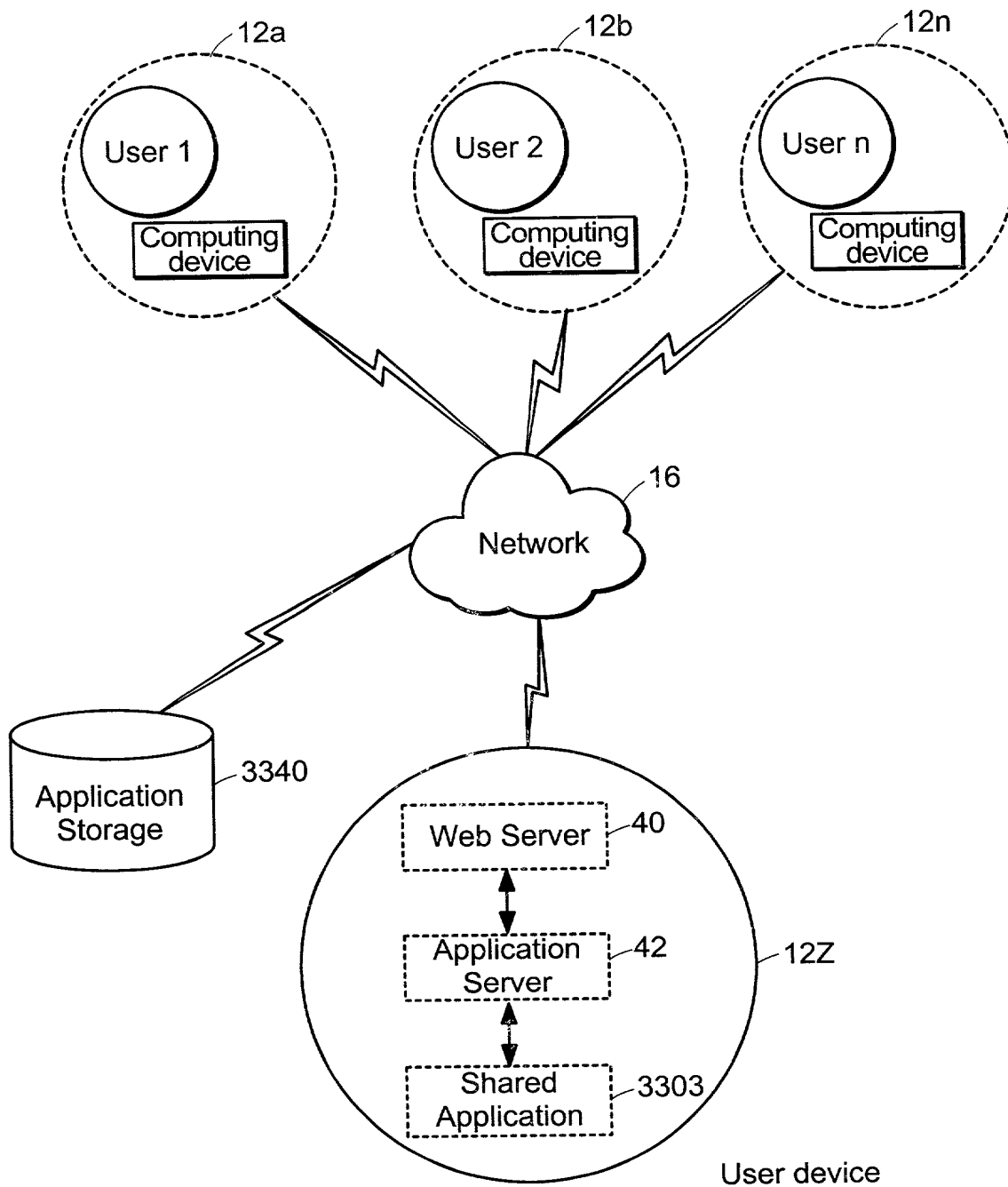
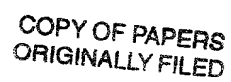


FIG. 33



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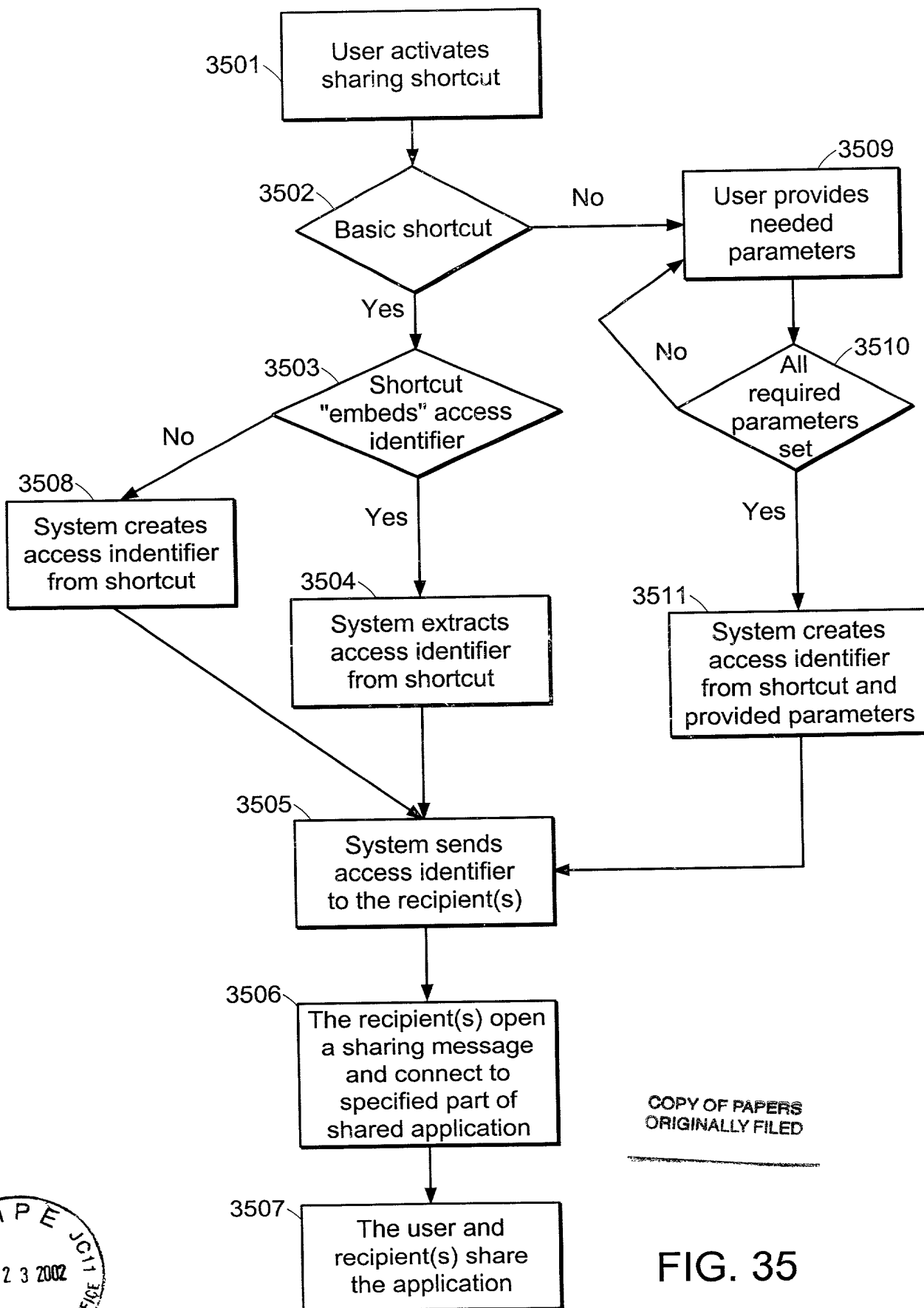
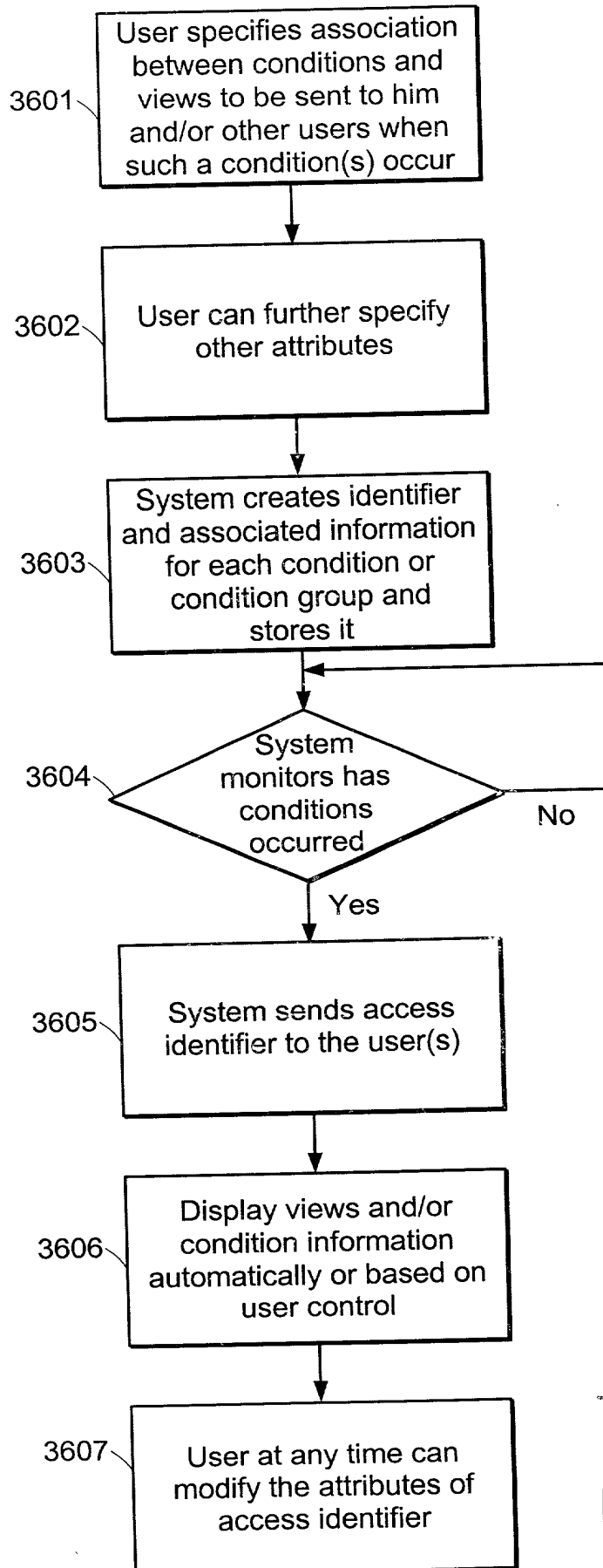
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FIG. 35





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FIG. 36



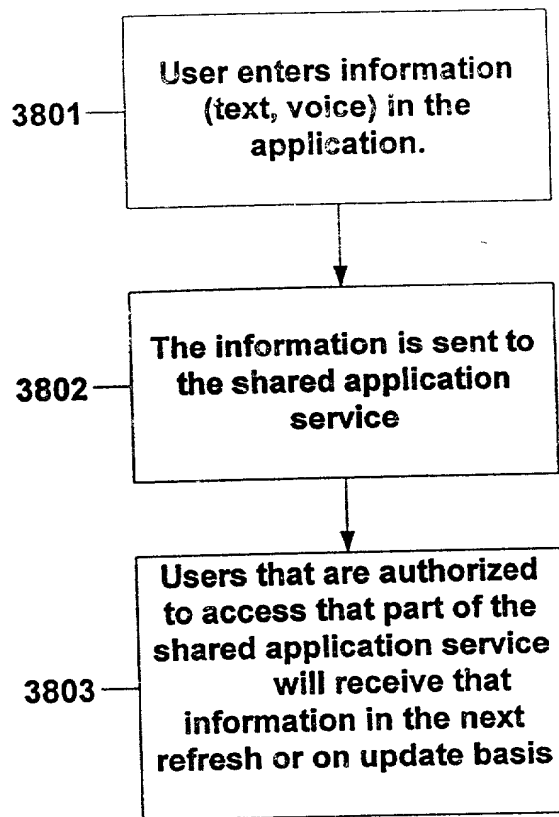


FIG. 38

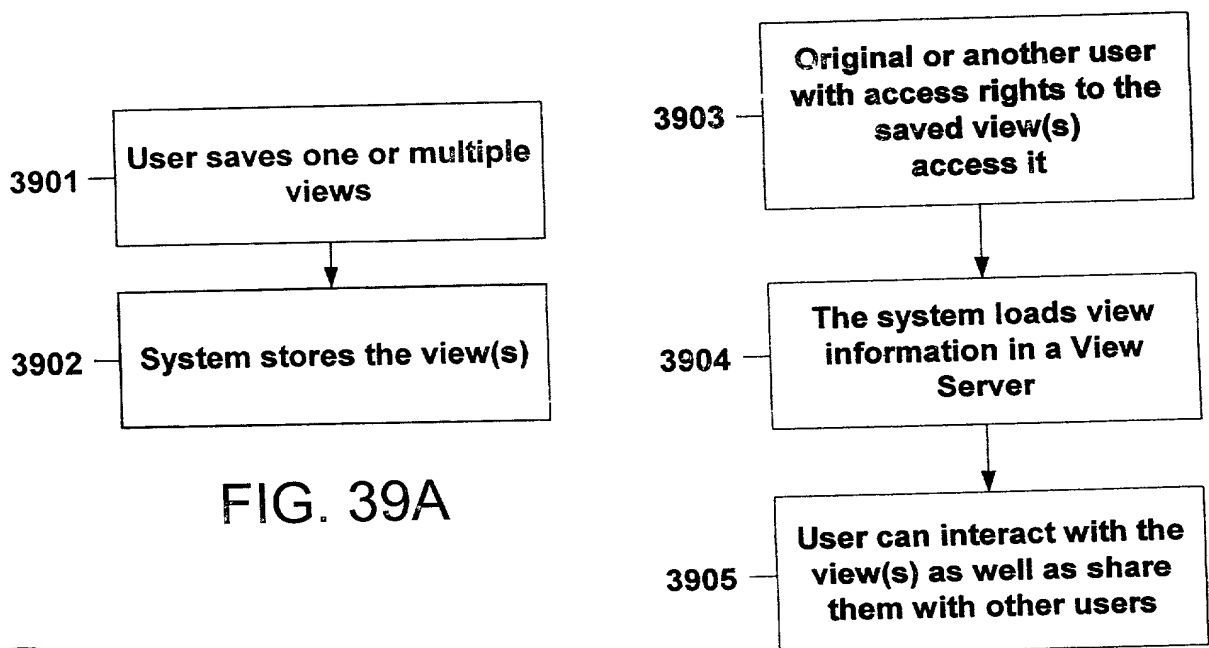


FIG. 39A

FIG. 39B



46/64

4001

{	{	{	{
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
Text5	800	700	250
Text6	850	900	600
Text7	800	400	200
<b>TOTAL</b>	<b>5850</b>	<b>3100</b>	<b>1950</b>

4010

FIG. 40A

4002

{	{	{	
<b>B</b>	<b>C</b>	<b>D</b>	
500	100	200	
700	500	100	
800	1100	450	
850	900	600	
1100	500	600	
<b>TOTAL</b>	<b>3100</b>	<b>1950</b>	

4003

4020

4006

4003A

FIG. 40B

{	{	{	
<b>B</b>	<b>C avg</b>	<b>D</b>	
500	100	200	
700	500	100	
800	550	450	
850	900	600	
1100	250	600	
<b>TOTAL</b>	<b>3100</b>	<b>1950</b>	

4030

FIG. 40C



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{	{	{	{
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Text1	1100	200	150
Text3	1100	300	450
<b>TOTAL</b>	<b>2200</b>	<b>500</b>	<b>600</b>

4040

FIG. 40D

{		{
<b>D</b>	<b>B</b>	<b>C</b>
100	700	500
150	1100	200
200	1300	500
250	800	700
450	1100	300
600	850	900
<b>TOTAL</b>	<b>5850</b>	<b>3100</b>

4050

FIG. 40E



4101

{	{	{	{
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
Text5	800	700	250
Text6	850	900	600
Text7	800	400	200
<b>TOTAL</b>	<b>5850</b>	<b>3100</b>	<b>1950</b>

4110

FIG. 41A

4102

{	{	{
<b>B</b>	<b>C</b>	<b>D</b>
500-750	600	300
750-1000	2000	1050
1000-1250	500	600
<b>TOTAL</b>	<b>3100</b>	<b>1950</b>

4120

4003

FIG. 41B

{	{	{
<b>B</b>	<b>C avg</b>	<b>D</b>
500-750	300	300
750-1000	666.67	1050
1000-1250	250	600
<b>TOTAL</b>	<b>3100</b>	<b>1950</b>

4130

FIG. 41C

4201

*	*	*	*
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
Text5	800	700	250
Text6	850	900	600
Text7	800	400	200
<b>TOTAL</b>	<b>5850</b>	<b>3100</b>	<b>1950</b>

4210

FIG. 42A

4202

*	*	*	*
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Text2	500	100	200
Text4	700	500	100
Text5	800	700	250
Text6	850	900	600
Text7	800	400	200
<b>TOTAL</b>	<b>3650</b>	<b>2600</b>	<b>1350</b>

4220

FIG. 42B

4203

*	*	*	*
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Text2	500	100	200
Text4	700	500	100
Text5	800	700	250
Text7	800	400	200
<b>TOTAL</b>	<b>2800</b>	<b>1700</b>	<b>750</b>

4230

FIG. 42C

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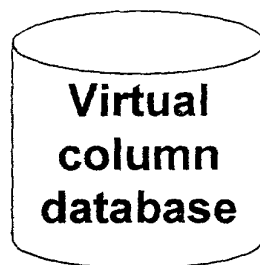


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A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
TOTAL	2700	600	800

4310



4315

FIG. 43A

A	B	C	D	M
Text1	1100	200	150	125
Text2	500	100	200	175
Text3	1100	300	450	100
TOTAL	2700	600	800	400

4320

FIG. 43B

A	B	C	D	M
Text1	1100	200	150	125
Text2	500	100	200	175
Text3	1100	300	450	100
TOTAL	2700	600	800	400

4330

FIG. 43C

A	B	D	M
Text1	1100	150	125
Text2	500	200	175
Text3	1100	450	100
TOTAL	2700	800	400

4340

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FIG. 43D

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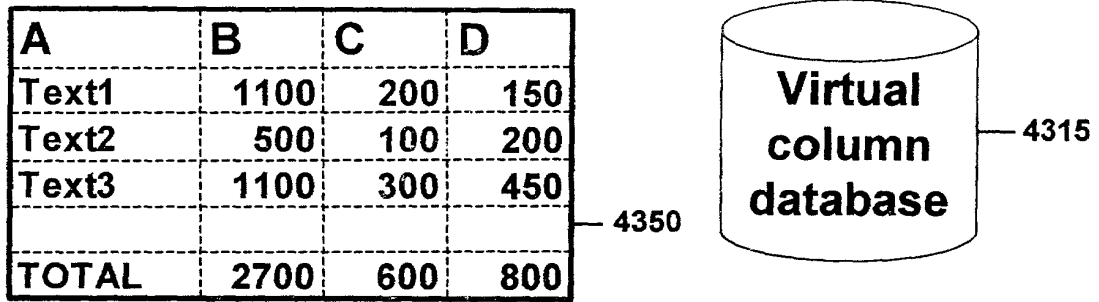


FIG. 43E

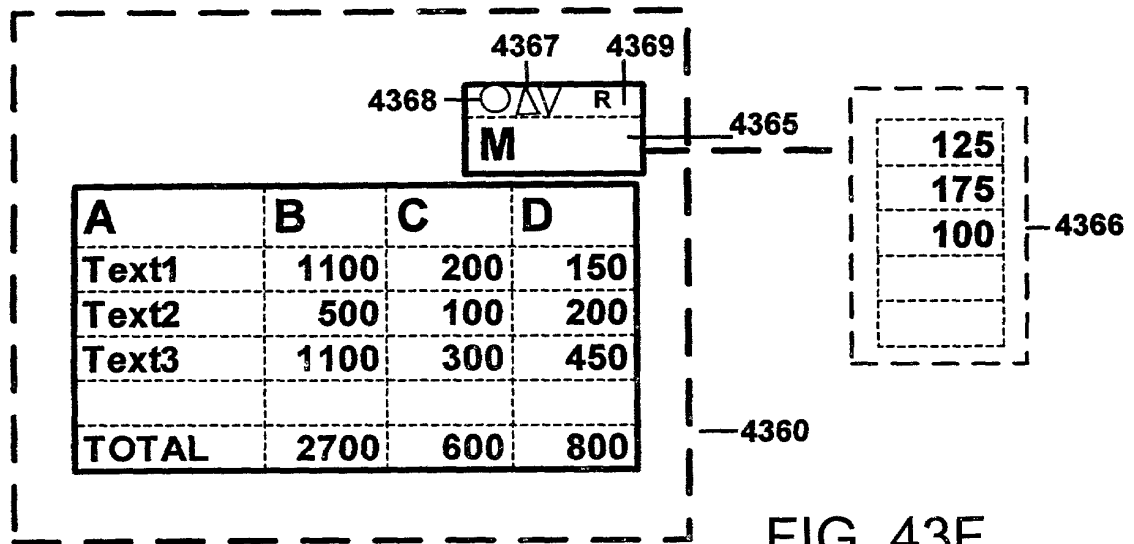


FIG. 43F

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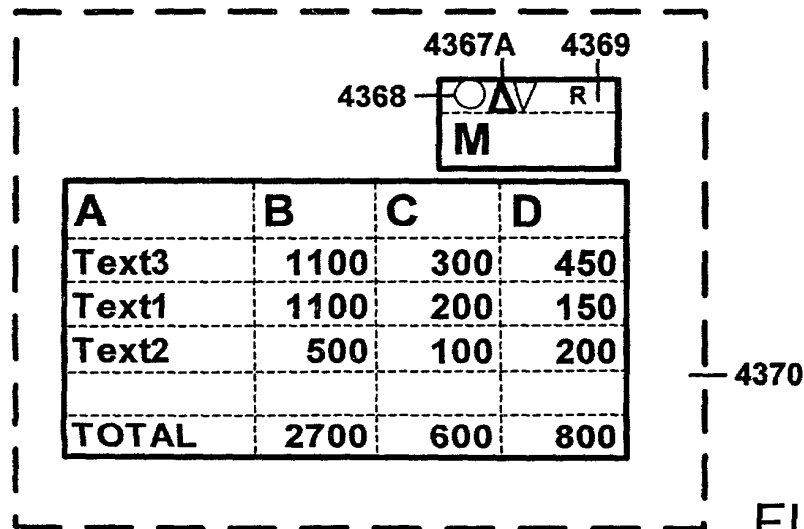


FIG. 43G

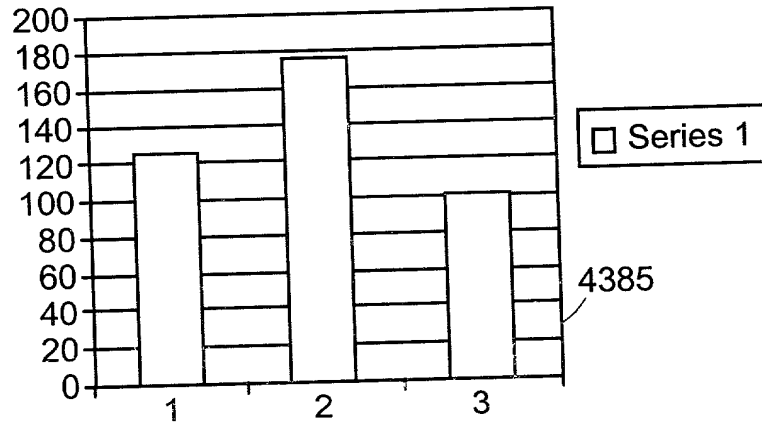
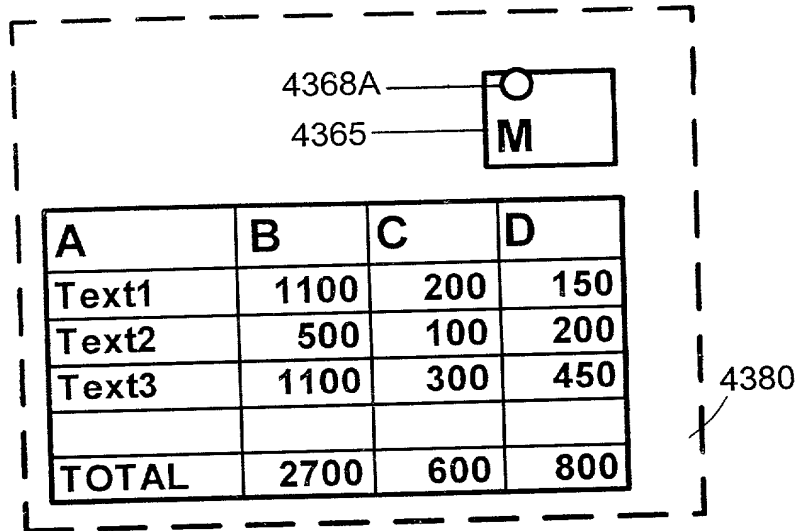


FIG. 43H

A	B	C	D	M
Text1	1100	200	150	125
Text2	500	100	200	175
Text3	1100	300	450	100
TOTAL	2700	600	800	400

4390

FIG. 43I

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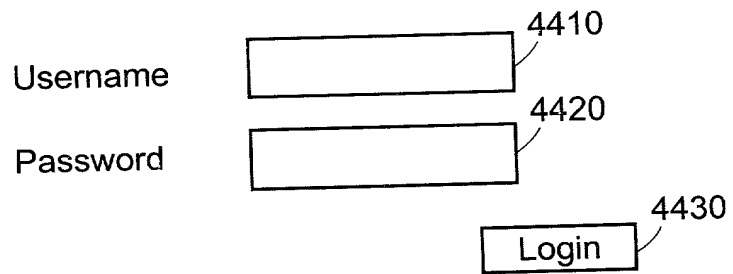


FIG. 44A

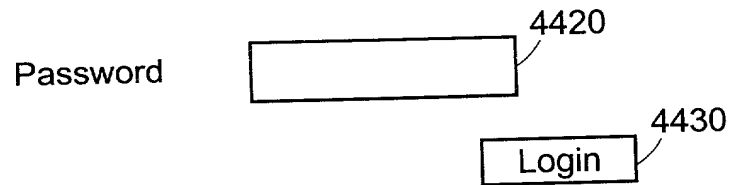


FIG. 44B

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4501

o	o	o	o
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
<b>TOTAL</b>	<b>3400</b>	<b>1100</b>	<b>900</b>

4510

FIG. 45A

4502

4503

o	O	o	o
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
<b>TOTAL</b>	<b>3400</b>	<b>1100</b>	<b>900</b>

4510

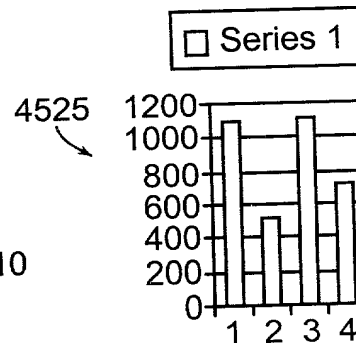


FIG. 45B

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4501

4504

o	o	o	O
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
<b>TOTAL</b>	<b>3400</b>	<b>1100</b>	<b>900</b>

4510

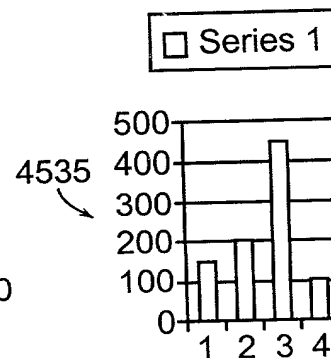
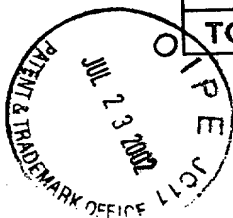


FIG. 45C



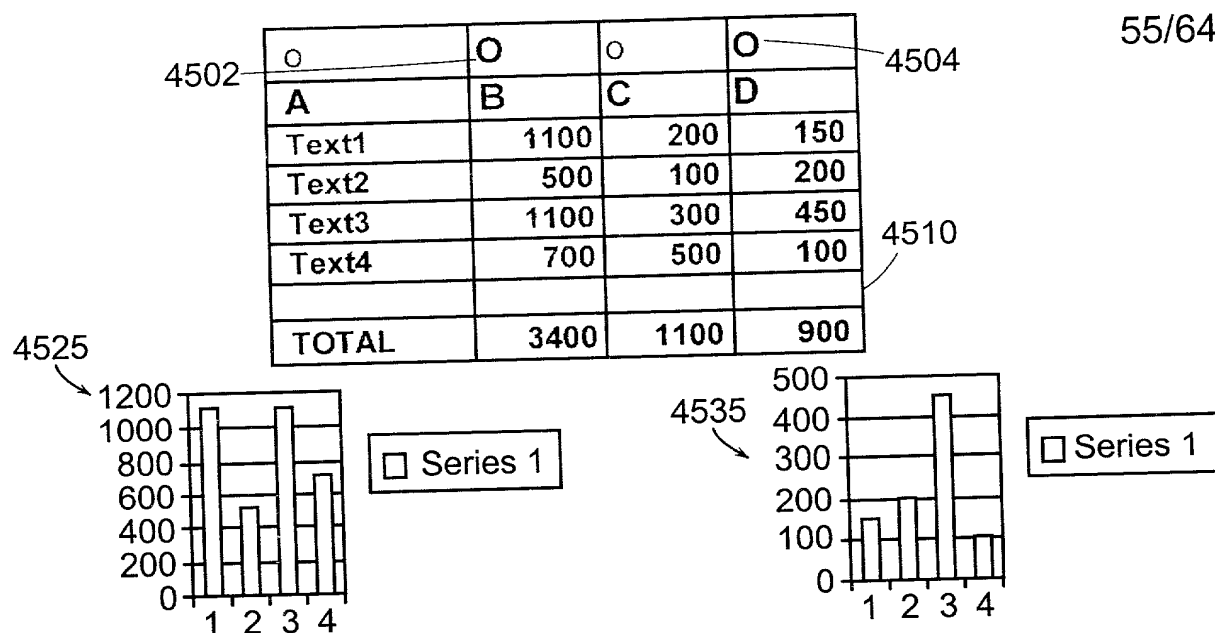


FIG. 45D

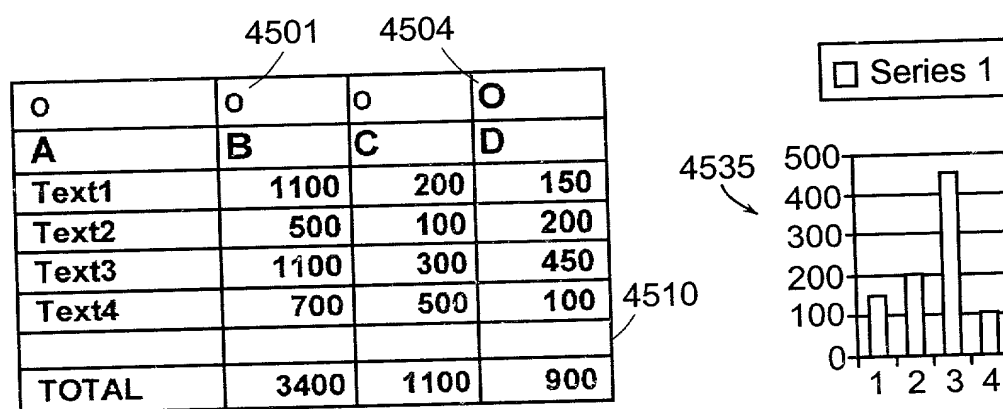


FIG. 45E

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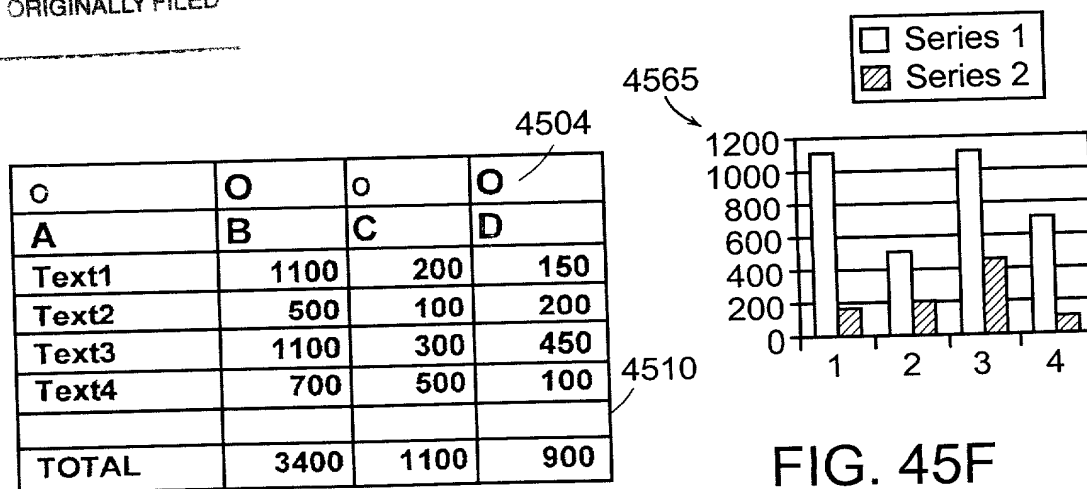


FIG. 45F



4590

4592

4502

4504

o	O	o	O
A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
TOTAL	3400	1100	900

4510



FIG. 45G

4590

4591

4501

4504

o	o	o	o
A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
TOTAL	3400	1100	900

4510







FIG. 45H

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4603

4602







  <b>A</b>	  <b>B</b>	  <b>C</b>
Text1	2/15/99	1000
Text2	3/12/99	3500
Text1	3/12/99	1800
Text1	2/15/99	1500
Text1	5/20/99	500
Text2	3/12/99	2000
Text1	2/15/99	1000
Text2	3/12/99	3500
Text2	6/8/99	1000
Text2	4/10/99	2000

4610

FIG. 46A

4604

4602A







  <b>A</b>	  <b>B</b>	  <b>C</b>
Text1	2/15/99	1000
Text1	3/12/99	1800
Text1	2/15/99	1500
Text1	5/20/99	500
Text1	2/15/99	1000
Text2	3/12/99	3500
Text2	3/12/99	2000
Text2	3/12/99	3500
Text2	6/8/99	1000
Text2	4/10/99	2000

4620

FIG. 46B

4604A

4602A

  <b>A</b>	  <b>B</b>	  <b>C</b>
Text1	2/15/99	1000
Text1	2/15/99	1500
Text1	2/15/99	1000
Text1	3/12/99	1800
Text1	5/20/99	500
Text2	3/12/99	3500
Text2	3/12/99	2000
Text2	3/12/99	3500
Text2	4/10/99	2000
Text2	6/8/99	1000

4630

FIG. 46C

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4604A 4606A

4602A







  A	  B	  C
Text1	2/15/99	1000
Text1	2/15/99	1000
Text1	2/15/99	1500
Text1	3/12/99	1800
Text1	5/20/99	500
Text2	3/12/99	2000
Text2	3/12/99	3500
Text2	3/12/99	3500
Text2	4/10/99	2000
Text2	6/8/99	1000

4640

FIG. 46D

4604A 4606A

4602A

  B	  A	  C
2/15/99	Text1	1000
2/15/99	Text1	1000
2/15/99	Text1	1500
3/12/99	Text1	1800
3/12/99	Text2	2000
3/12/99	Text2	3500
3/12/99	Text2	3500
4/10/99	Text2	2000
5/20/99	Text1	500
6/8/99	Text2	1000







4608

4650

FIG. 46E

4604A 4606

4602A

  B	  A	  C
2/15/99	Text1	1500
2/15/99	Text1	1000
2/15/99	Text1	1000
3/12/99	Text1	1800
3/12/99	Text2	3500
3/12/99	Text2	3500
3/12/99	Text2	2000
4/10/99	Text2	2000
5/20/99	Text1	500
6/8/99	Text2	1000

4608A

4660

FIG. 46F

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59/64

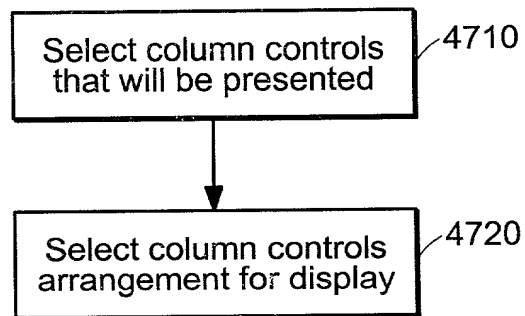


FIG. 47

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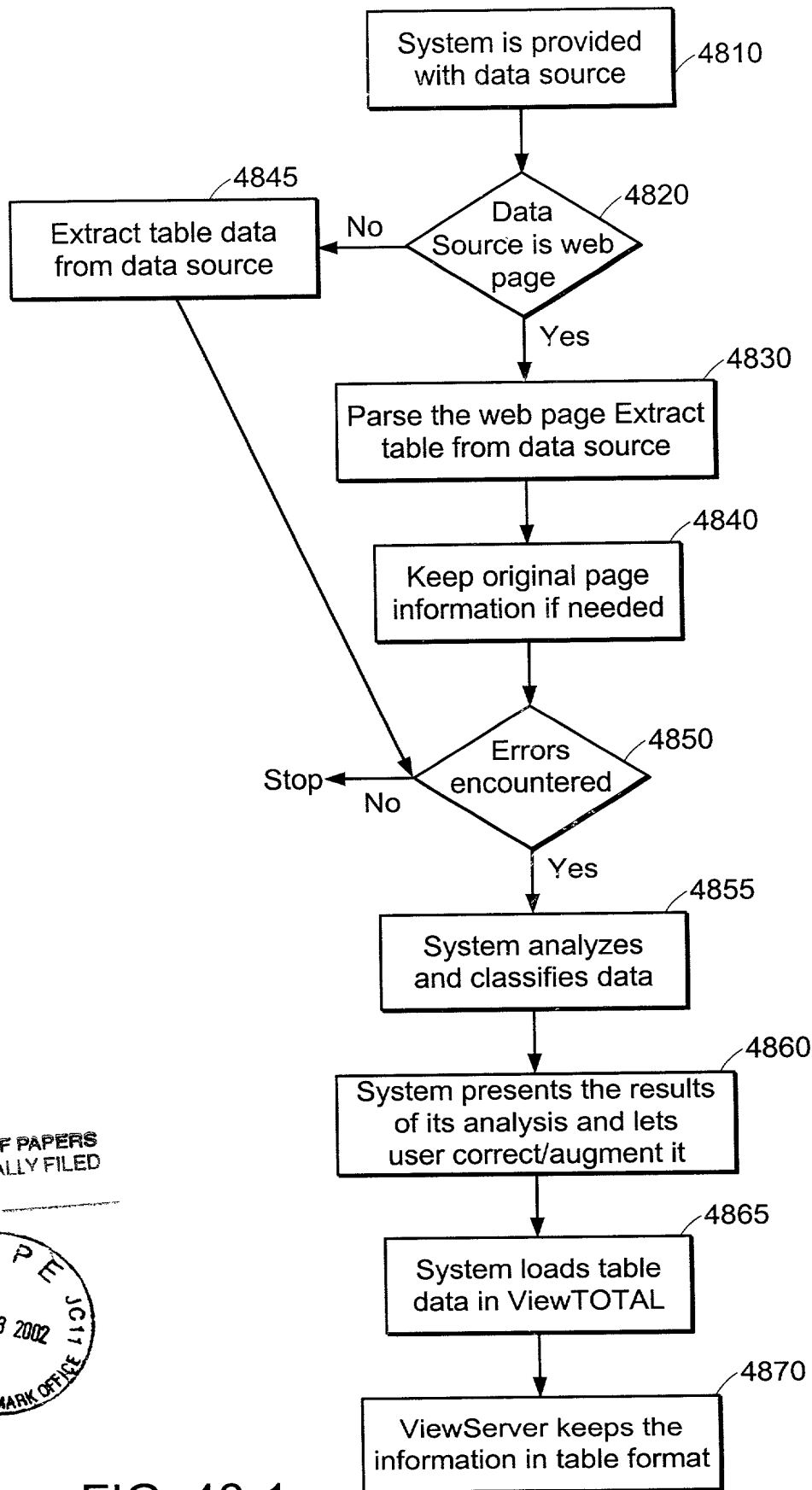
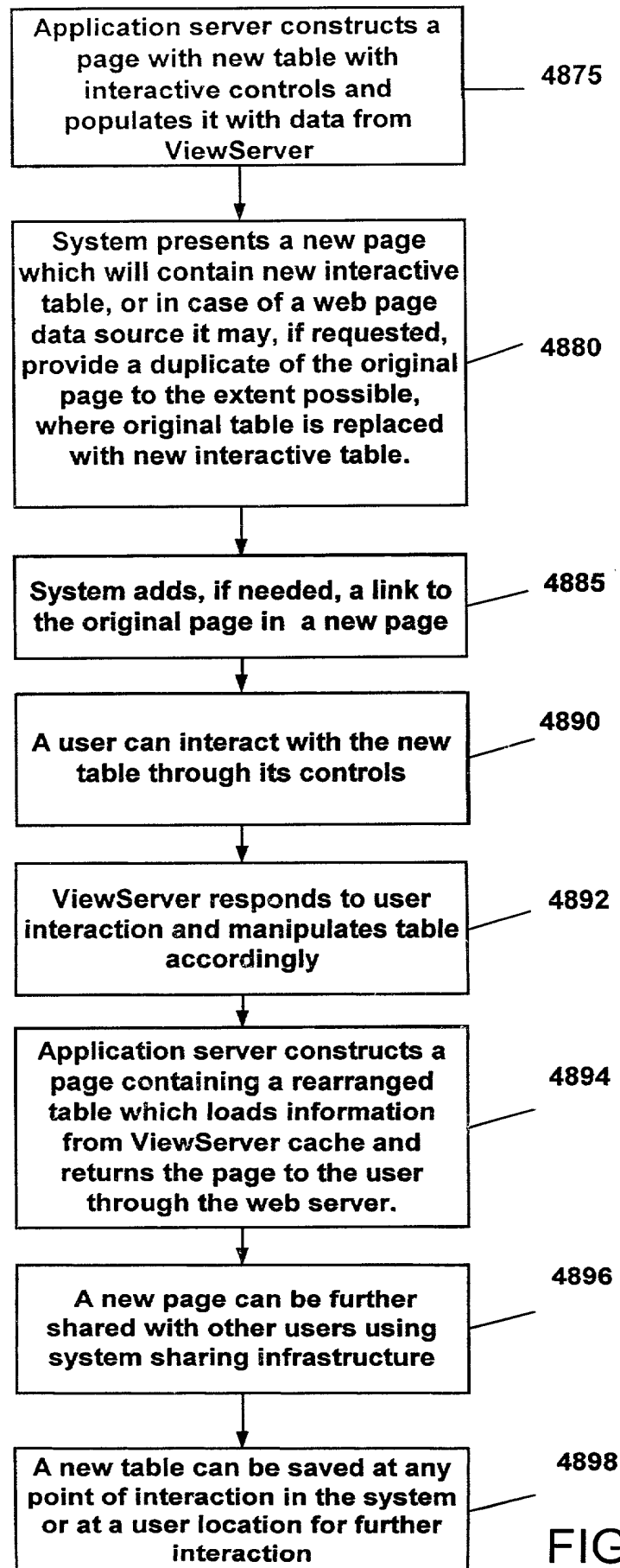


FIG. 48-1

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FIG. 48-2COPY OF PAPERS  
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Continued from  
FIG. 48-1

61/64



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FIG. 48-2

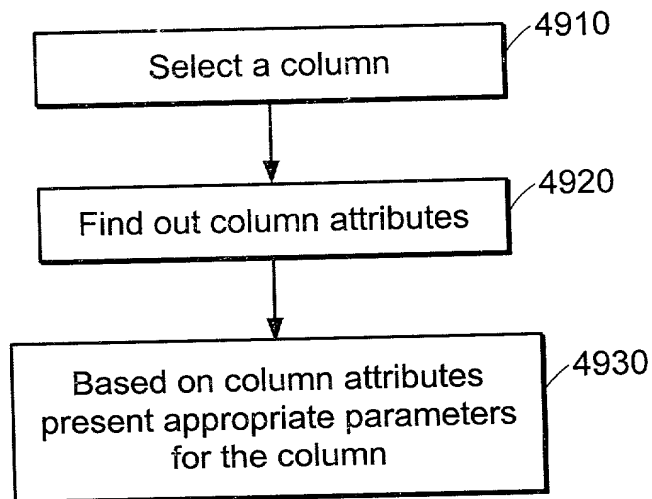


FIG. 49

<div> <div>Aggregation Type</div> <div>Range</div> <div> <div>base</div> <div>0</div> </div> <div> <div>range</div> <div>250</div> </div> </div>			5010
{	{	{	
<b>B</b>	<b>C</b>	<b>D</b>	
500-750	600	300	5020
750-1000	2000	1050	
1000-1250	500	600	
<b>TOTAL</b>	<b>3100</b>	<b>1950</b>	

FIG. 50



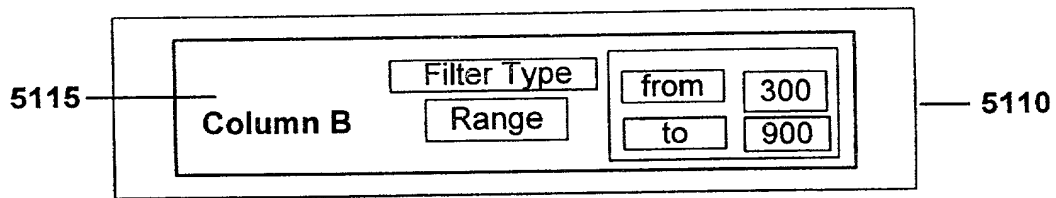


FIG. 51A

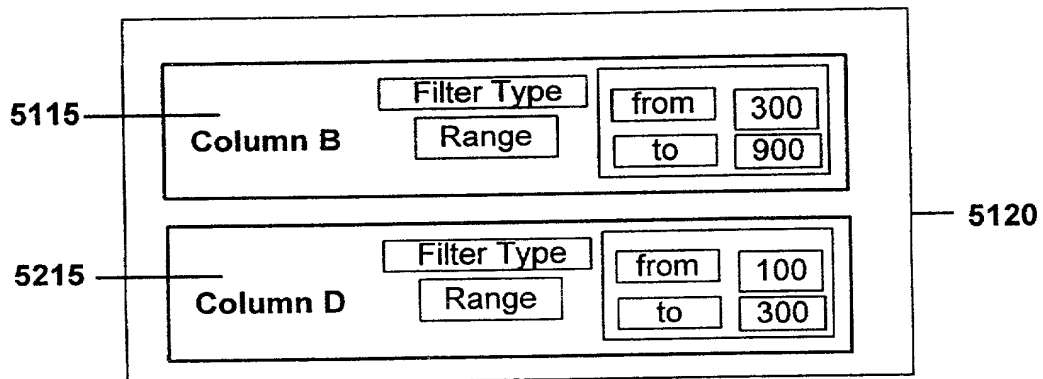


FIG. 51B



64/64

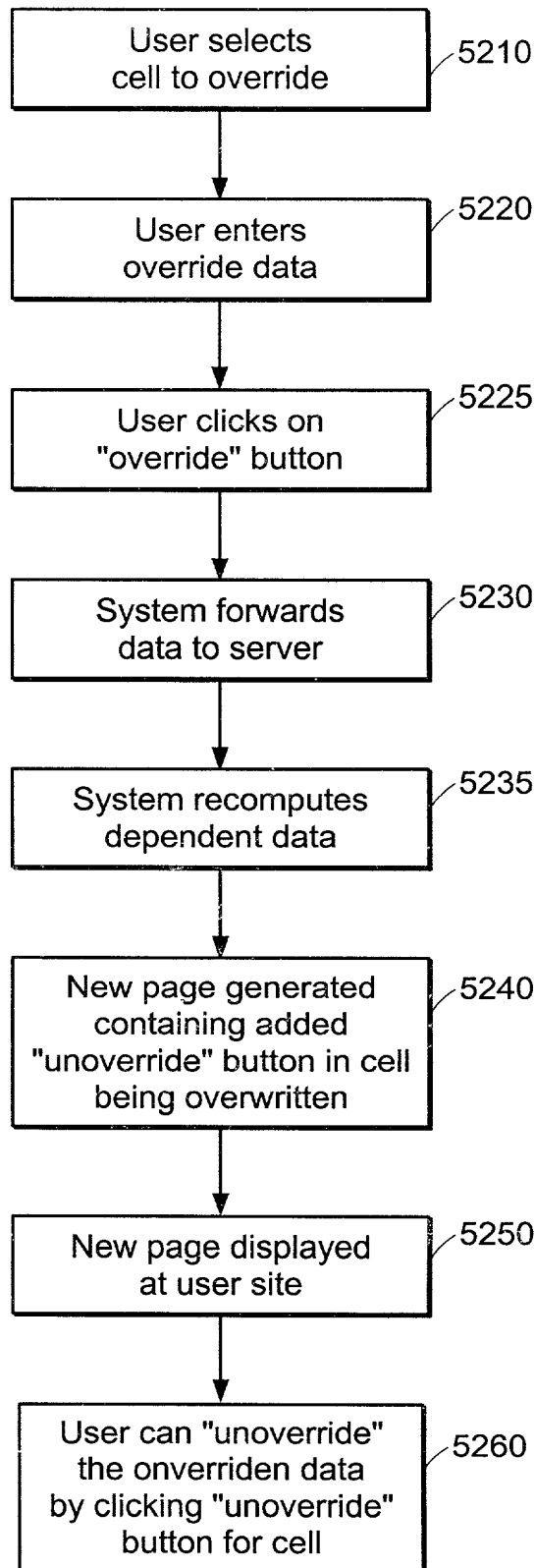


FIG. 52

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